CDX-M3DI/M1000TF

SERVICE MANUAL

Ver 1.0 2003. 03

US Model
Canadian Model
CDX-M3DI
AEP Model
UK Model
CDX-M1000TF

Photo: CDX-M1000TF

• The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-MP40
CD Drive Mechanism Type	MG-393MC-121
Optical Pick-up Name	KSS-721A

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US Model)
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
23.2 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 5% total harmonic distortion.

CD player section

Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	87.5 – 107.9 MHz (US, Canadian Model) 87.5 – 108.0 MHz (AEP, UK Model)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	9 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz	0.5% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

AM (US, Canadian Model)

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 µV

MW/LW (AEP, UK Model)

Tuning range	MW : 531 – 1,602 kHz LW : 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW : 30 µV LW : 40 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	52 W × 4 (at 4 ohms)

General

Outputs	Audio outputs (front/rear) Subwoofer output (mono) Power antenna relay control terminal Power amplifier control terminal
Inputs	Telephone ATT control terminal Illumination control terminal BUS control input terminal BUS audio input/AUX IN terminal Remote controller input terminal (CDX-M1000TF only) Antenna input terminal

– Continued on next page –

FM/AM COMPACT DISC PLAYER
US, Canadian Model

FM/MW/LW COMPACT DISC PLAYER
AEP, UK Model

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2003C0400-1
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Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY®

Tone controls	Bass: ±8 dB at 100 Hz Treble: ±8 dB at 10 kHz
Loudness	+8 dB at 100 Hz +2 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 181 mm (7 1/8 × 2 × 7 1/4 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 160 mm (7 1/4 × 2 1/8 × 6 3/8 in.) (w/h/d)
Mass	Approx. 1.6 kg (3 lb. 8 oz.)
Supplied accessories	Card remote commander RM-X131 (1) (CDX-M3DI) Card remote commander RM-X132 (1) (CDX-M1000TF) Parts for installation and connections Front panel cover (1)

Note

This unit cannot be connected to a digital preamplifier or an equalizer which is Sony BUS system compatible.

Design and specifications are subject to change without notice.

SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

TEST DISCS

This set can playback CD-R and CD-ROM discs. The following test discs should be used to check the capability:

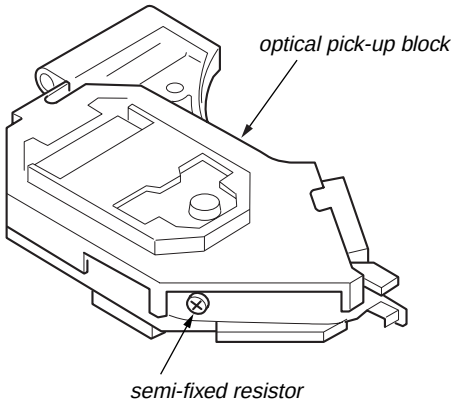
CD-R test disc TCD-R082LMT (Part No. J-2502-063-1)
CD-RW test disc TCD-W082L (Part No. J-2502-063-2)

- US, Canadian model

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.



- AEP, UK model

CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Notes on CD-Rs (recordable CDs)/CD-RWs (rewritable CDs)

This unit can play the following discs:

Type of discs	Label on the disc
Audio CD	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable
MP3 files	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable COMPACT disc Recordable COMPACT disc ReWritable

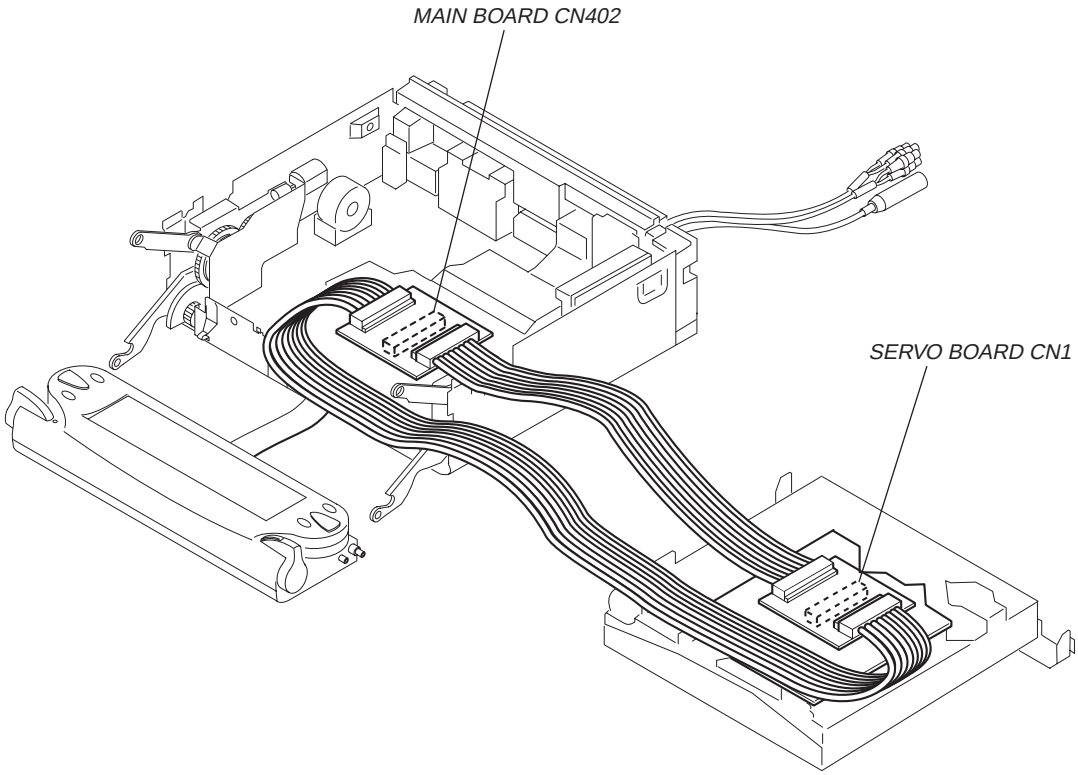
- Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R/CD-RW that is not finalized*.
- You can play MP3 files recorded on CD-ROMs, CD-Rs, and CD-RWs.
- A CD-R/CD-RW to which a session can be added can be played.

* A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.

EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig (extension cable) as shown below.

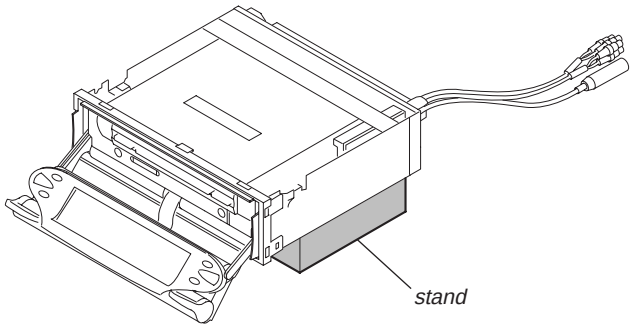
- Connect the MAIN board (CN402) and the SERVO board (CN1) with the extension cable (Part No. J-2502-062-1).



NOTE FOR THE OPENING OF THE FRONT PANEL

In this set, the front panel is lowered to below the bottom face when it is opened.

When servicing the set, place it on a stand having a height of about 2 cm.



FORCED FRONT PANEL OPEN/CLOSE

The front panel is forced to OPEN/CLOSE at the timing that the power (ACC) is turned off.

If the ⏏ button for the front panel is not effective, the following method is used:

With the front panel open: The front panel is closed when ACC is switched from ON to OFF edge.

With the front panel closed: The front panel is opened when ACC is switched from ON to OFF edge.

NOTE FOR REPLACEMENT OF THE DIGITAL BOARD

When repairing, the complete DIGITAL board should be replaced since any parts in the DIGITAL board cannot be repaired.

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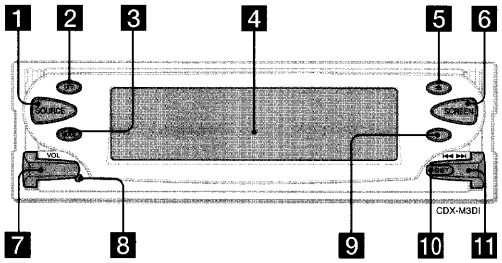
SECTION 1
GENERAL

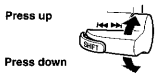
This section is extracted from instruction manual.

Location of controls (CDX-M3DI)



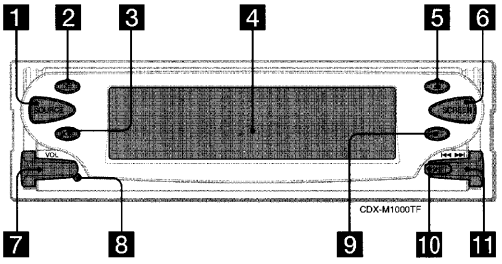
Refer to the pages listed for details.

1 **SOURCE (Power on/Radio/CD/MD/AUX*1) button**
To select the source.
2 **OFF (Stop/Power off) button***2 11, 29
3 **MODE button**
To change the operation.
4 **Display window**
5 **⏏ (eject) button**
To eject a disc, if a disc is already in the unit.
To open/close the front panel.
6 **SCREEN button**
To select the display mode.
7 **VOL (volume) control lever**
To turn up or down the volume by pressing up or down the VOL lever.
8 **Reset button** 10
9 **Receptor for the card remote commander and wireless rotary commander**
10 **SHIFT (switching shift 1-3) button**
To change the function of the ⏮ ⏭ lever (11).
11 **⏮ ⏭ lever**
To select the desired radio station, the desired item to be adjusted, or the desired image by pressing up or down the ⏮ ⏭ lever.



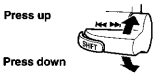
*1 When an optional CD/MD unit is connected, "AUX" is not displayed.
*2 **Warning**
when installing in a car without an ACC (accessory) position on the ignition switch
After turning off the ignition, be sure to press and hold (OFF) on the unit until the display disappears.
Otherwise, the display does not turn off and this causes battery drain.

Location of controls (CDX-M1000TF)



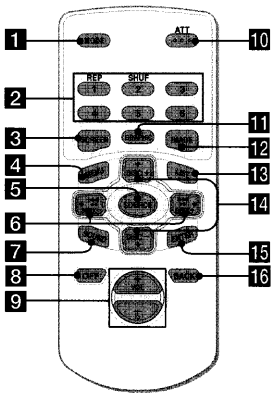
Refer to the pages listed for details.

1 **SOURCE (Power on/Radio/CD/MD/AUX*1) button**
To select the source.
2 **OFF (Stop/Power off) button***2 11, 34
3 **MODE button**
To change the operation.
4 **Display window**
5 **⏏ (eject) OPEN/CLOSE button**
To eject a disc, if a disc is already in the unit.
To open/close the front panel.
6 **SCREEN button**
To select the display mode.
7 **VOL (volume) control lever**
To turn up or down the volume by pressing up or down the VOL lever.
8 **Reset button** 10
9 **Receptor for the card remote commander and wireless rotary commander**
10 **SHIFT (switching shift 1-3) button**
To change the function of the ⏮ ⏭ lever (11).
11 **⏮ ⏭ lever**
To select the desired radio station, the desired item to be adjusted, or the desired image by pressing up or down the ⏮ ⏭ lever.



*1 When an optional CD/MD unit is connected, "AUX" is not displayed.
*2 **Warning**
when installing in a car without an ACC (accessory) position on the ignition switch
After turning off the ignition, be sure to press and hold (OFF) on the unit until the display disappears.
Otherwise, the clock display does not turn off and causes battery drain.

Card remote commander RM-X131



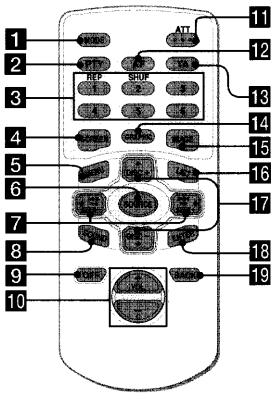
The corresponding buttons of the card remote commander control the same functions as those on this unit.
Instructions in this manual describe how to use the unit by mainly using the card remote commander.
Refer to the pages listed for details.

1 **MODE button**
2 **Number buttons**
① **REP** 13
② **SHUF** 13
To store stations and receive stored stations.
3 **SCREEN button**
4 **MENU button**
To display the general menus.
5 **SOURCE button**
6 **⬅/➡ (SEEK –/+) buttons**
7 **SOUND button**
To display the sound menus.
8 **OFF button**
9 **VOL (+/–) buttons**
10 **ATT button** 24
11 **GRAPHIC button**
To display the graphic menus.
12 **IMAGE button**
To switch the display patterns.
13 **LIST button** 15, 18
14 **⬆/⬇ (DISC +/–) buttons**
15 **ENTER button**
To enter a setting.
16 **BACK button**
In a setting, to return to a previous operation.

Note
If the display disappears by pressing (OFF), it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

Tip
See "Replacing the lithium battery" on page 30 for details on how to replace the batteries.

Card remote commander RM-X132



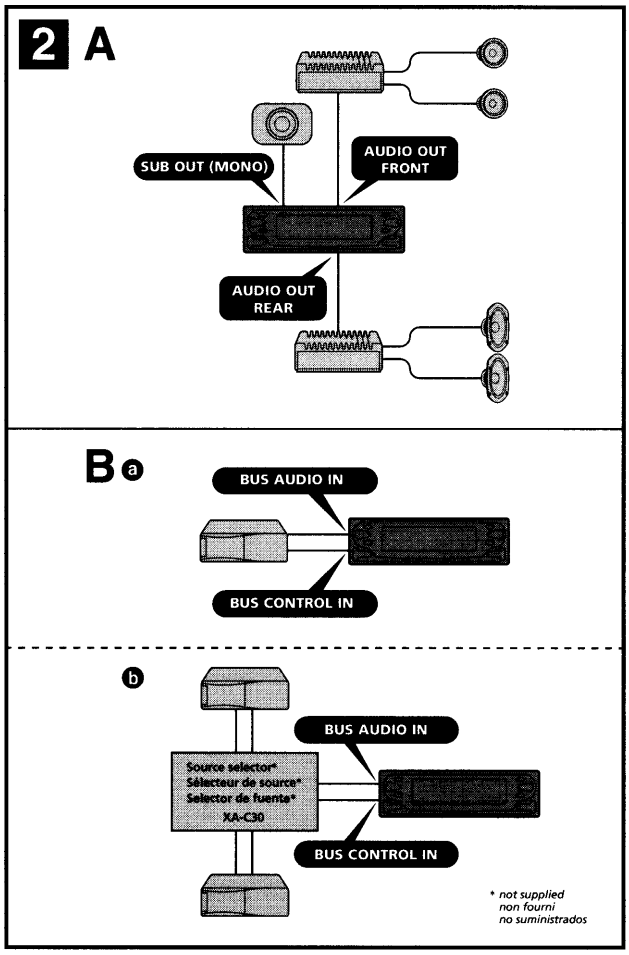
The corresponding buttons of the card remote commander control the same functions as those on this unit.
Instructions in this manual describe how to use the unit by mainly using the card remote commander.
Refer to the pages listed for details.

1 **MODE button**
2 **PTY button**
3 **Number buttons**
① **REP** 13
② **SHUF** 13
To store stations and receive stored stations.
4 **SCREEN button**
5 **MENU button**
To display the general menus.
6 **SOURCE button**
7 **⬅/➡ (SEEK –/+) buttons**
8 **SOUND button**
To display the sound menus.
9 **OFF button**
10 **VOL (+/–) buttons**
11 **ATT button** 29
12 **AF button** 19
13 **TA button** 20
14 **GRAPHIC button**
To display the graphic menus.
15 **IMAGE button**
To switch the display patterns.
16 **LIST button** 15, 17
17 **⬆/⬇ (DISC +/–) buttons**
18 **ENTER button**
To enter a setting.
19 **BACK button**
In a setting, to return to a previous operation.

Note
If the display disappears by pressing (OFF), it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

Tip
See "Replacing the lithium battery" on page 36 for details on how to replace the batteries.

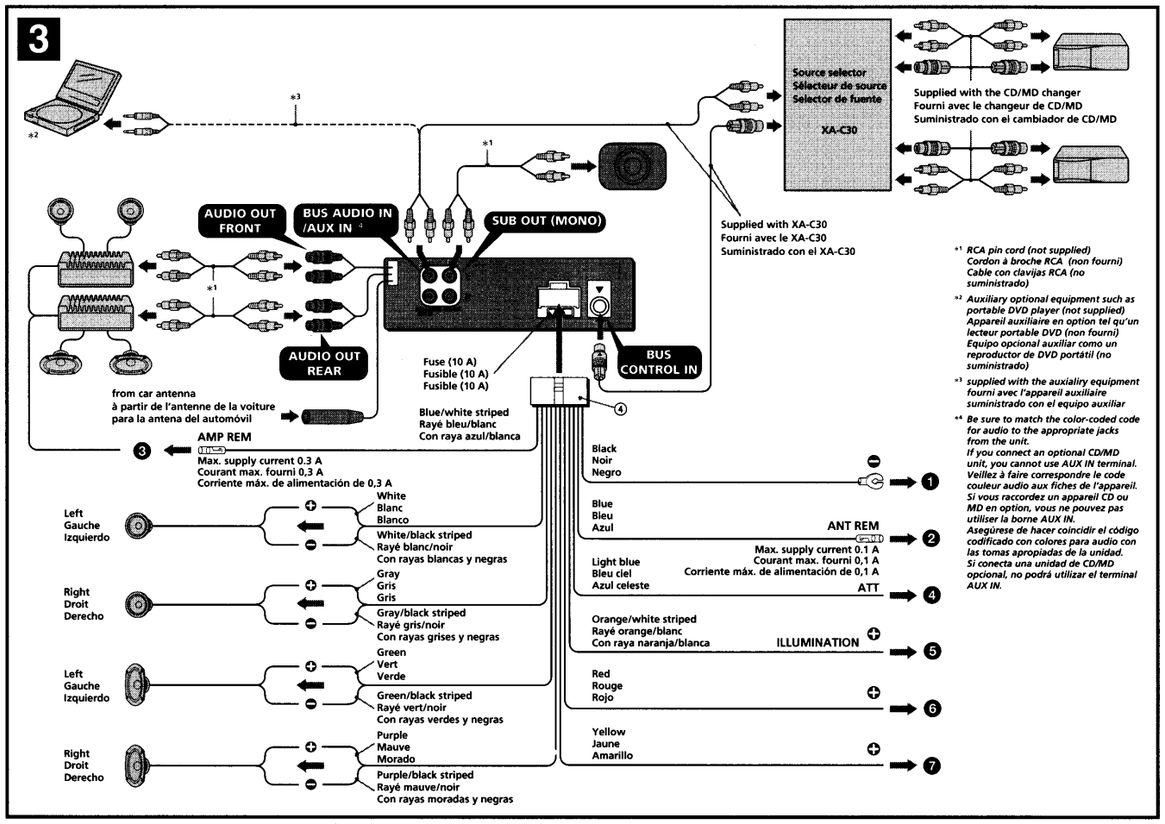
Connections (CDX-M3DI)



Connection example (2)

Note (2-A)
Be sure to connect the ground cord before connecting the amplifier.

Tip (2-B-b)
For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.



Connection diagram (3)

❶ **To a metal surface of the car**
First connect the black ground lead, then connect the orange/white striped, yellow, and red power input leads.

❷ **To the power antenna control lead or power supply lead of antenna booster amplifier**
Notes
- *It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.*
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

❸ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

❹ **To the interface cable of a car telephone**

❺ **To a car's illumination signal**
Be sure to connect the black ground lead to a metal surface of the car first.

❻ **To the +12 V power terminal which is energized in the accessory position of the ignition key switch**
Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.*
  Be sure to connect the black ground lead to a metal surface of the car first.
- *When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."*

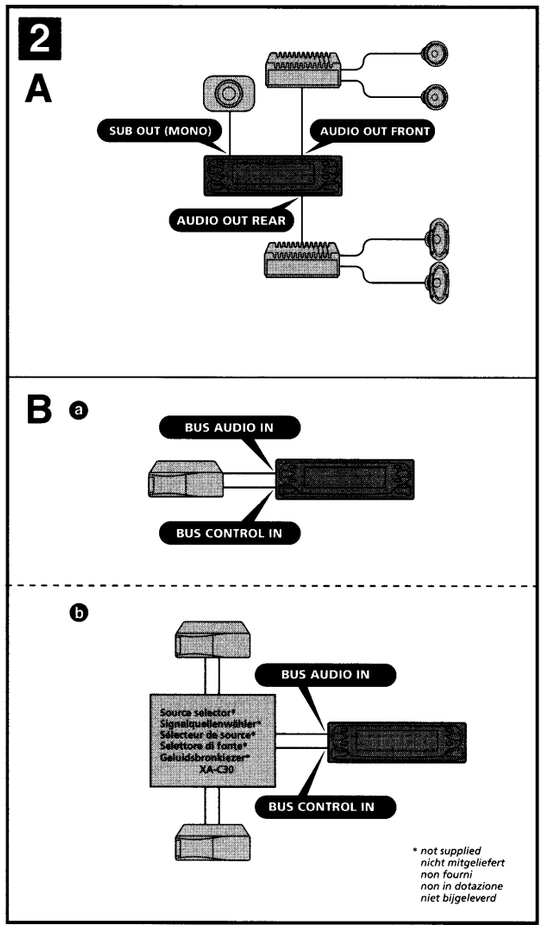
❼ **To the +12 V power terminal which is energized at all times**
Be sure to connect the black ground lead to a metal surface of the car first.

Notes on the control and power supply leads
- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM antenna in the rear/side glass, connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.*
- *A power antenna without relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker cords to each other.*

Connections (CDX-M1000TF)

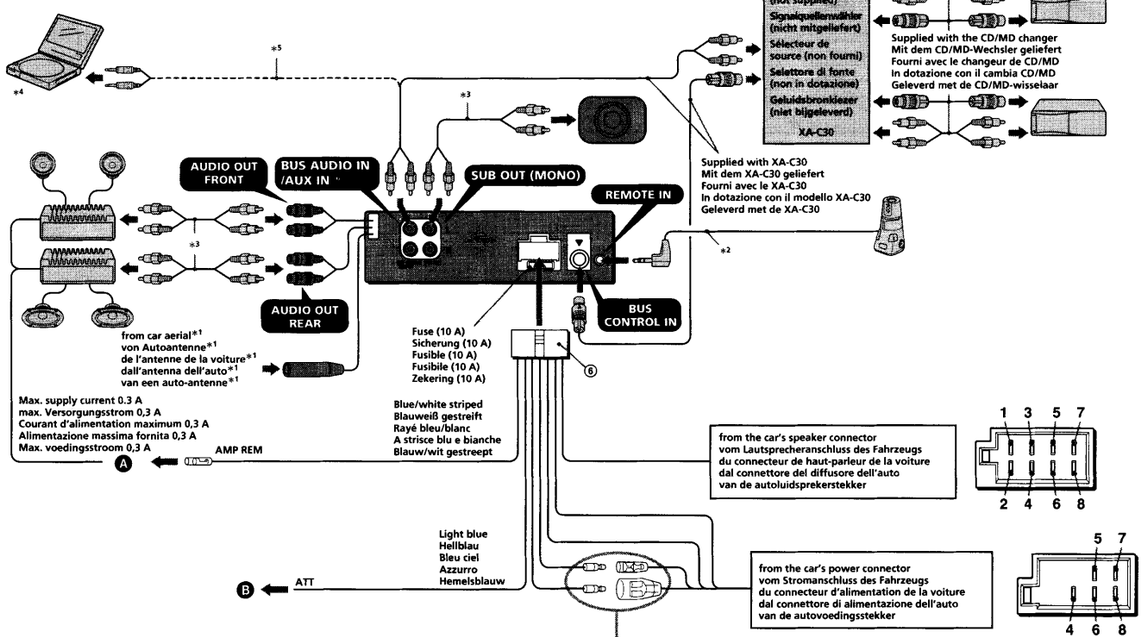


Connection example (2)

Note **(2-A)**
Be sure to connect the earth cord before connecting the amplifier.

Tip **(2-B-b)**
For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.

3



See "Power connection diagram" on the reverse side for details.
Näheres dazu finden Sie im „Stromanschlussdiagramm".
Blättern Sie dazu bitte um.
Voir le « Schéma de connexion d'alimentation » au verso pour plus de détails.
Per ulteriori informazioni, vedere "Schema dei collegamenti di alimentazione" che si trova sul retro.
Zie "Voedingsaansluitschema" op de achterkant voor meer details.

4	Yellow Gelb Jaune Giallo Geel	continuous power supply permanente Stromversorgung alimentation continue alimentazione continua continu voeding
5	Blue Blau Bleu Blu Blauw	power aerial control Motorantennen-Steuerleitung antenne électrique comando dell'antenna elettrica automatische antenne
6	Orange/White Orange-weiß gestreift Rayé orange/blanc Arancione/bianco Oranje/wit	switched illumination power supply geschaltete Beleuchtungsstromversorgung alimentation de l'éclairage commutée alimentazione a illuminazione commutata geschakelde verlichting stroomvoorziening
7	Red Rot Rouge Rosso Rood	switched power supply geschaltete Stromversorgung alimentation commutée alimentazione commutata geschakelde voeding
8	Black Schwarz Noir Nero Zwart	earth Masse masse terra aarding

Positions 1, 2 and 3 do not have pins.
An Position 1, 2 and 3 befinden sich keine Stifte.
Les positions 1, 2 et 3 ne comportent pas de broches.
Le posizioni 1, 2 e 3 non hanno piedini.
De posities 1, 2 en 3 hebben geen pins.

*1 ***Note for the aerial connecting***
If your car aerial is an ISO (International Organisation for Standardisation) type, use the supplied adaptor Ⓢ to connect it.
First connect the car aerial to the supplied adaptor, then connect it to the aerial jack of the master unit.
*2 ***Insert with the cord upwards***
*3 ***RCA pin cord (not supplied)***
*4 ***Auxiliary equipment such as portable DVD player (not supplied)***
*5 ***supplied with the auxiliary equipment***
*6 ***Be sure to match the colour-coded code for audio to the appropriate jacks from the unit.***
If you connect an optional CD/MD unit, you cannnot use AUX IN terminal.

*1 ***Hinweis zum Anschließen der Antenne***
Wenn Ihre Fahrzeugantenne der ISO-Norm (ISO = International Organization for Standardization - Internationale Normungsgemeinschaft) entspricht, schließen Sie sie mithilfe des mitgelieferten Adapters Ⓢ an.
Verbinden Sie zuerst die Fahrzeugantenne mit dem mitgelieferten Adapter und verbinden Sie diesen dann mit der Antennenbuchse des Hauptgeräts.
*2 ***Schließen Sie den Stecker mit dem Kabel nach oben an***
*3 ***Cinchkabel (nicht mitgeliefert)***
*4 ***Zusätzliche Geräte wie z. B. der tragbare DVD-Player***
*5 ***mit den Zusatzgeräten mitgeliefert***
*6 ***Achten Sie darauf, das farbcodierte Audiokabel mit den richtigen Buchsen am Gerät zu verbinden.***
Wenn ein gesondert erhältliches CD/MD-Gerät angeschlossen ist, kann der Anschluss AUX IN nicht verwendet werden.

*1 ***Remarque sur le raccordement de l'antenne***
Si votre antenne de voiture est de type ISO (Organisation internationale de normalisation), utilisez l'adaptateur fourni Ⓢ pour la raccorder.
Raccordez d'abord l'antenne de voiture à l'adaptateur fourni et, ensuite, à la prise d'antenne de l'appareil principal.
*2 ***Insérez avec le câble vers le haut***
*3 ***Cordon à broche RCA (non fourni)***
*4 ***Equipement auxiliaire non fourni tel que le lecteur portable de DVD***
*5 ***fourni avec l'équipement auxiliaire***
*6 ***Veillez à faire correspondre le code de couleurs audio aux fiches correspondantes de l'appareil.***
Si vous raccordez un appareil CD ou MD en option, vous ne pouvez pas utiliser la borne AUX IN.

*1 ***Nota per il collegamento dell'antenna***
Se l'antenna dell'auto è di tipo ISO (International Organization Standardization), utilizzare l'adattatore Ⓢ in dotazione per collegarla.
Collegare prima l'antenna della macchina all'adattatore in dotazione, quindi collegarla alla presa dell'antenna dell'apparecchio principale.
*2 ***Inserire con il cavo rivolto verso l'alto***
*3 ***Cavo a piedini RCA (non in dotazione)***
*4 ***Apparecchio opzionale ausiliario quale il lettore DVD portatile***
*5 ***in dotazione con l'apparecchio ausiliario***
*6 ***Assicurarsi che i cavi differenziati in base al colore per l'audio corrispondano alle prese appropriate dell'apparecchio.***
Se viene collegato un apparecchio CD/MD opzionale, non è possibile utilizzare il terminale AUX IN.

*1 ***Opmerking bij de antenne-aansluiting***
Indien uw auto is uitgerust met een antenne van het type ISO (International Organisation for Standardization), moet u die aansluiten met behulp van de meegeleverde adapter Ⓢ.
Sluit eerst de auto-antenne aan op de meegeleverde adapter en vervolgens de antennestekker op het hoofdtoestel.
*2 ***Inbrengen met het snoer naar boven***
*3 ***Tulpstekkersnoer (niet bijgeleverd)***
*4 ***Los verkrijgbare apparatuur zoals de draagbare DVD-speler (niet bijgeleverd)***
*5 ***geleverd met de los verkrijgbare apparatuur***
*6 ***Zorg ervoor dat de kleurcode voor audio overeenkomt met de betreffende aansluitingen op het toestel.***
Als u los verkrijgbare CD/MD-apparatuur aansluit, kunt u de AUX IN aansluiting niet gebruiken.

1	Purple Violett Mauve Viola Paars	+	Speaker, Rear, Right Lautsprecher hinten rechts haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	5	White Weiß Blanc Bianco Wit	+	Speaker, Front, Left Lautsprecher vorne links haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
2		–	Speaker, Rear, Right Lautsprecher hinten rechts haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	6		–	Speaker, Front, Left Lautsprecher vorne links haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
3	Grey Grau Gris Grigio Grijs	+	Speaker, Front, Right Lautsprecher vorne rechts haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	7	Green Grün Vert Verde Groen	+	Speaker, Rear, Left Lautsprecher hinten links haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links
4		–	Speaker, Front, Right Lautsprecher vorne rechts haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	8		–	Speaker, Rear, Left Lautsprecher hinten links haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links

Negative polarity positions 2, 4, 6, and 8 have striped cords.
An den negativ gepolten Positionen 2, 4, 6 und 8 befinden sich gestreifte Adern.
Les positions de polarité négative 2, 4, 6 et 8 sont dotées de cordons rayés.
Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi rigati.
De posities voor negatieve polariteit (2, 4, 6 en 8) hebben gestreepte kabels.

Connection diagram (3)

Ⓐ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

Ⓑ **To the interface cable of a car telephone**

Warning
If you have a power aerial without a relay box, connecting this unit with the supplied power connecting cord Ⓒ may damage the aerial.

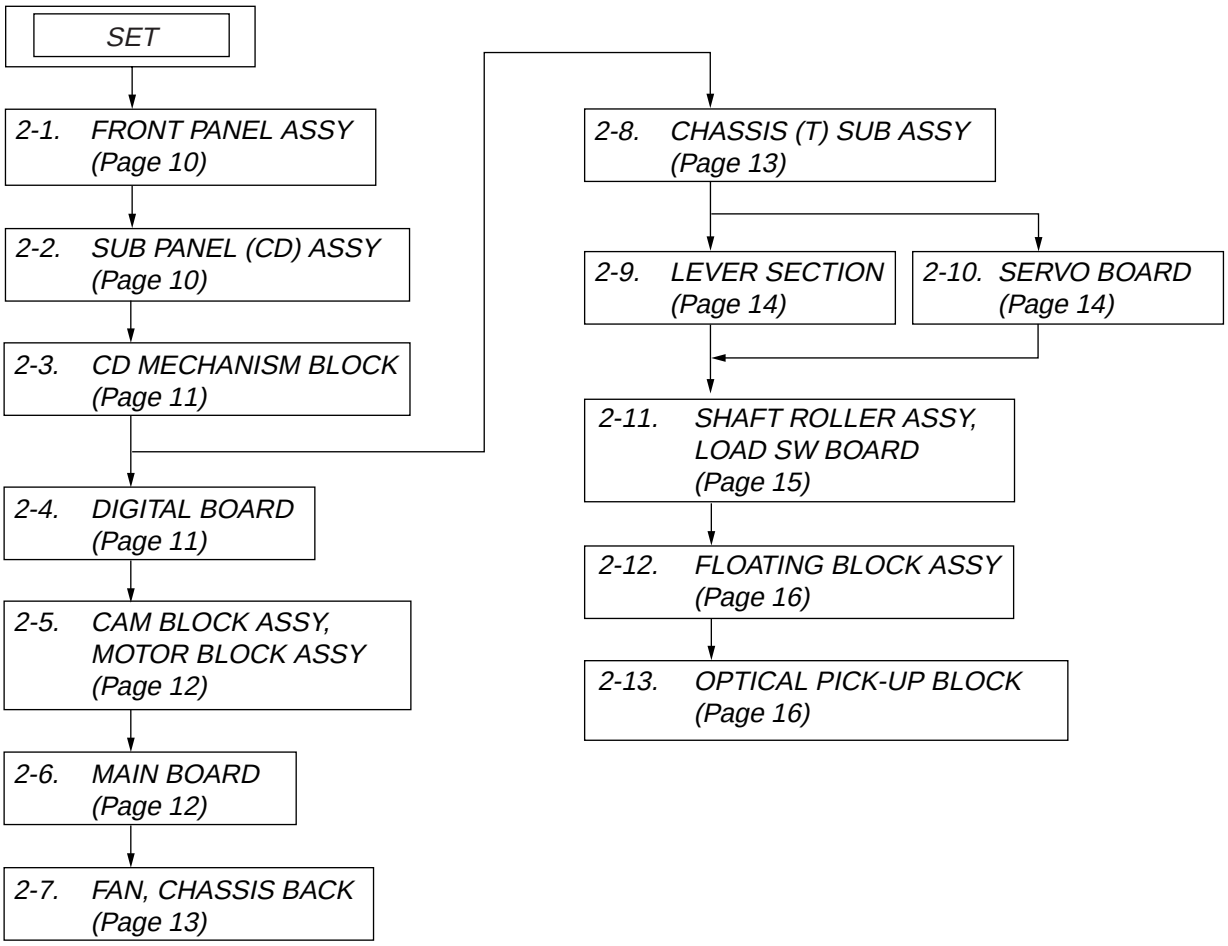
Notes on the control leads
- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the AF (Alternative Frequency), TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW aerial in the rear/side glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*
- *A power aerial without a relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the earth lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker cords to each other.*

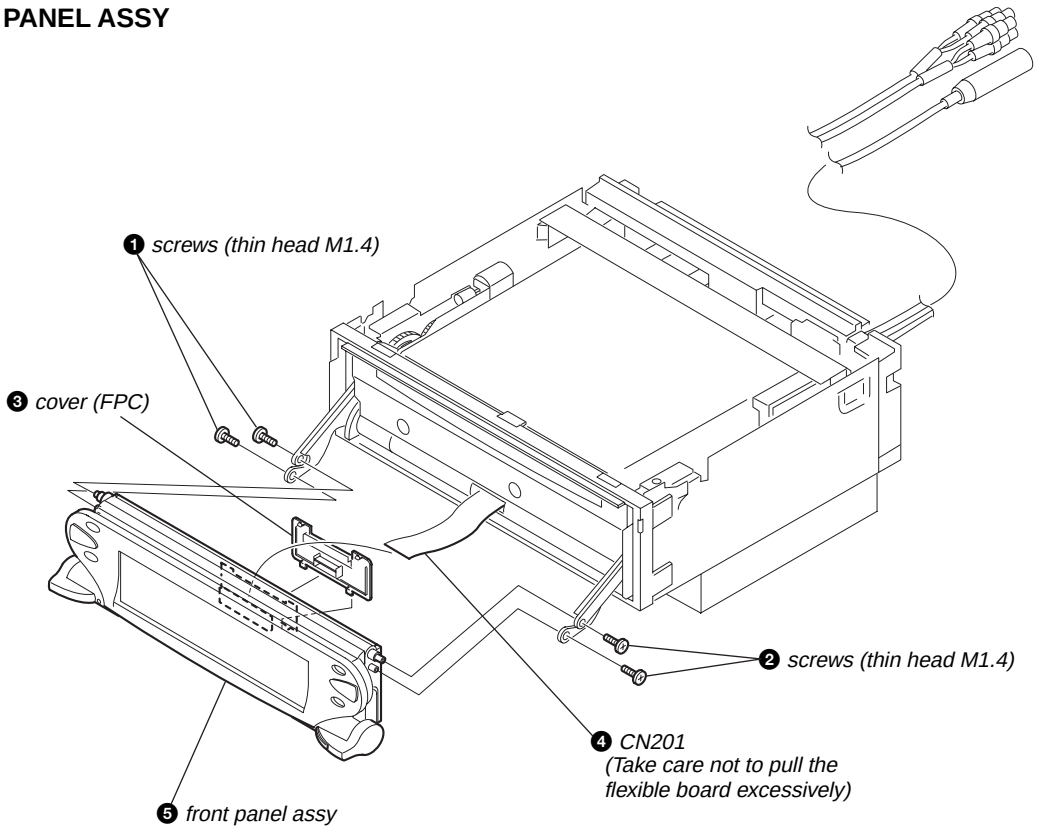
SECTION 2
DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

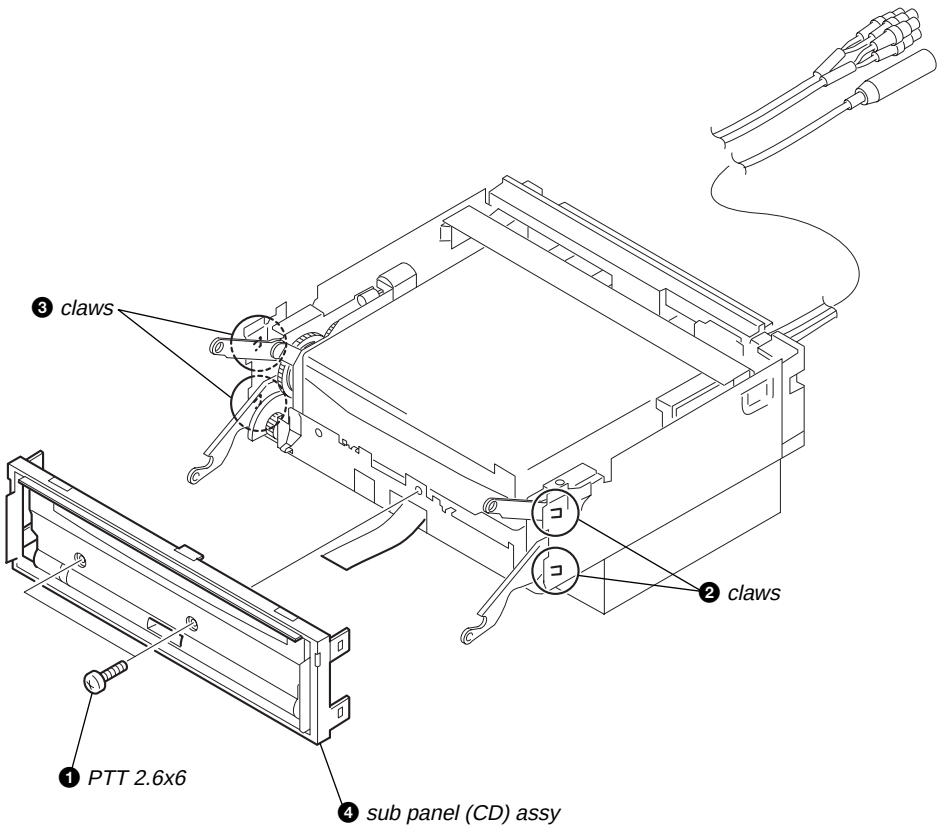

SET
2-1. FRONT PANEL ASSY (Page 10)
2-2. SUB PANEL (CD) ASSY (Page 10)
2-3. CD MECHANISM BLOCK (Page 11)
2-4. DIGITAL BOARD (Page 11)
2-5. CAM BLOCK ASSY, MOTOR BLOCK ASSY (Page 12)
2-6. MAIN BOARD (Page 12)
2-7. FAN, CHASSIS BACK (Page 13)
2-8. CHASSIS (T) SUB ASSY (Page 13)
2-9. LEVER SECTION (Page 14)
2-10. SERVO BOARD (Page 14)
2-11. SHAFT ROLLER ASSY, LOAD SW BOARD (Page 15)
2-12. FLOATING BLOCK ASSY (Page 16)
2-13. OPTICAL PICK-UP BLOCK (Page 16)

Note : Follow the disassembly procedure in the numerical order given.

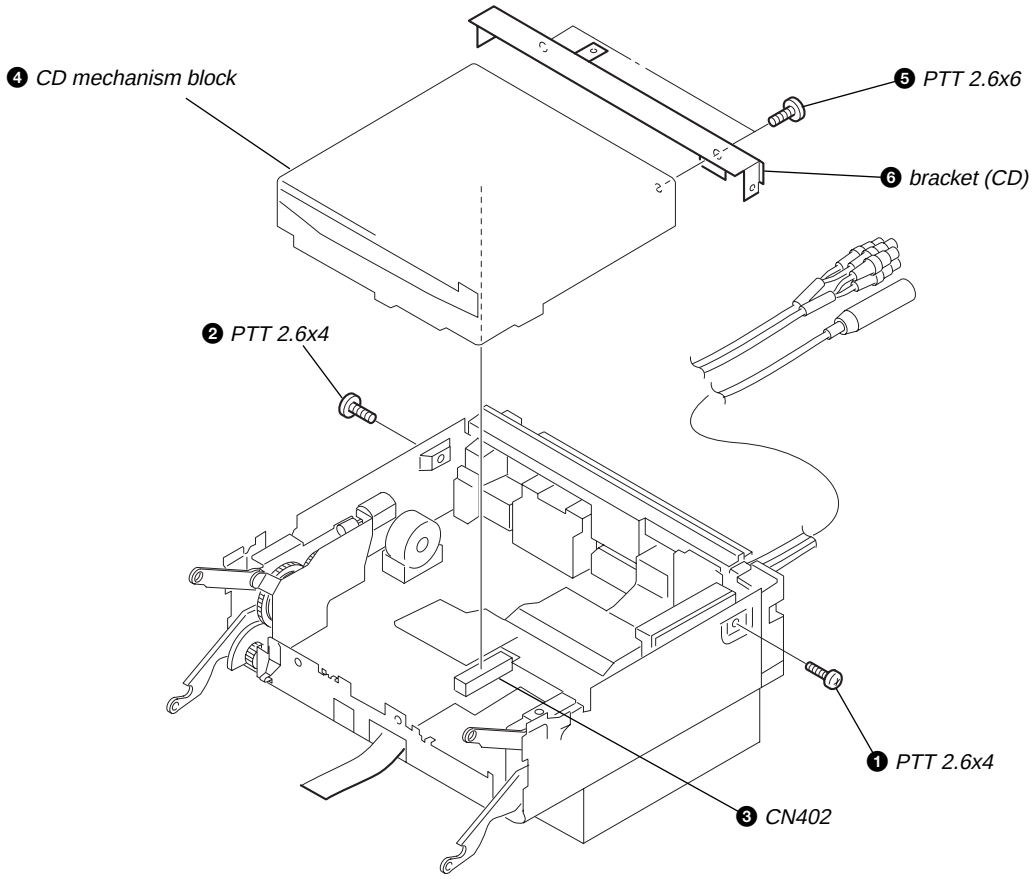
2-1. FRONT PANEL ASSY


❶ screws (thin head M1.4)
❸ cover (FPC)
❷ screws (thin head M1.4)
❹ CN201
(Take care not to pull the
flexible board excessively)
❺ front panel assy

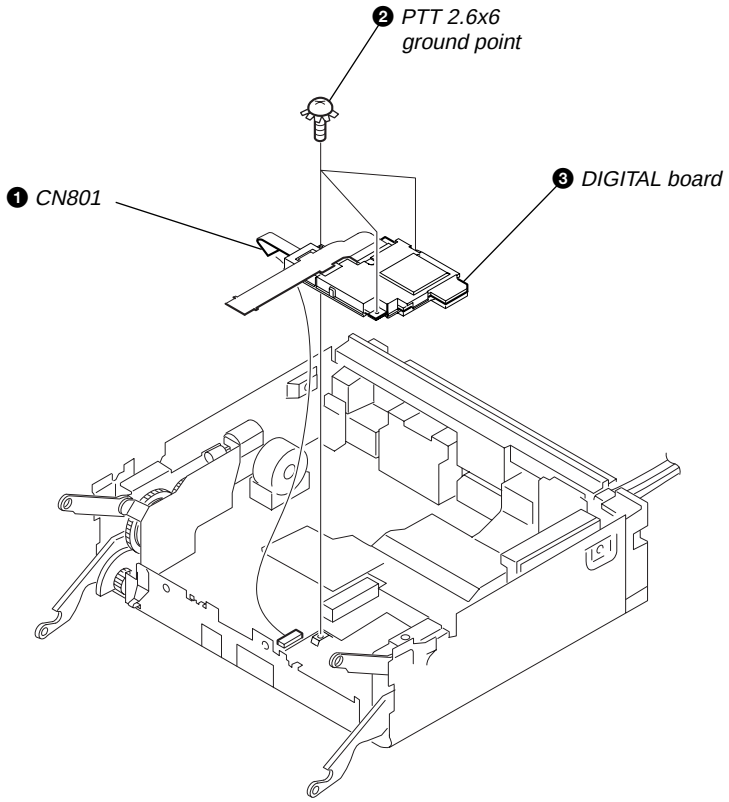
2-2. SUB PANEL (CD) ASSY



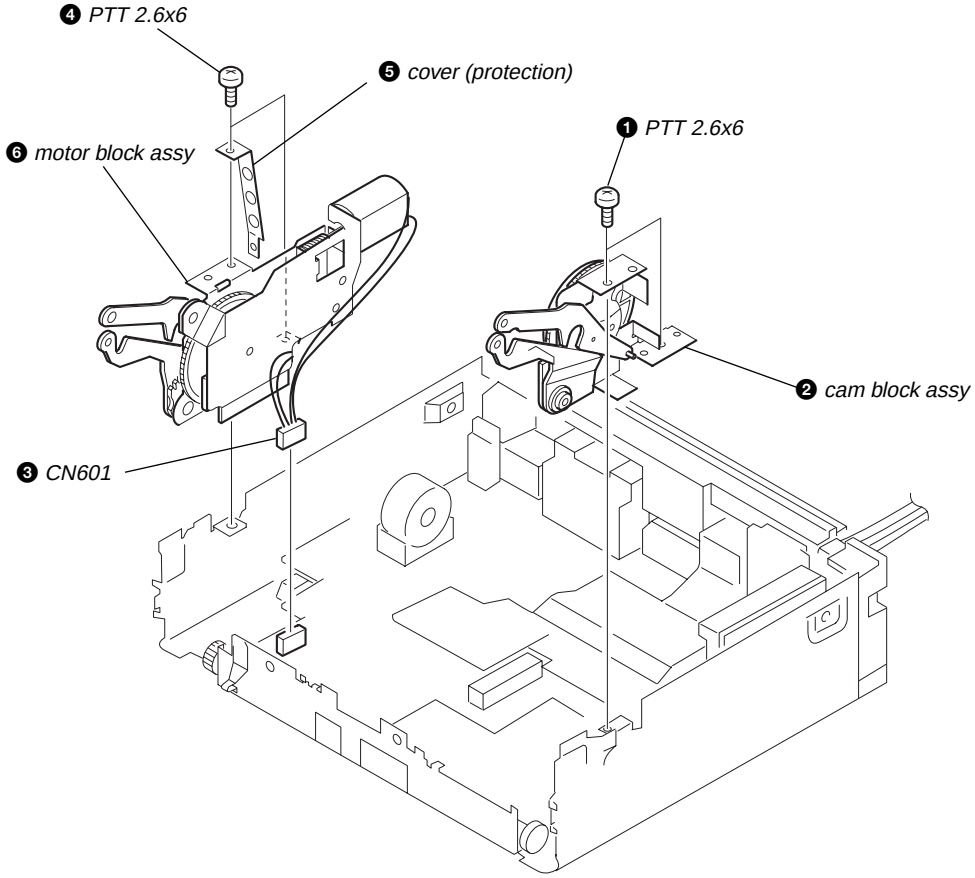
2-3. CD MECHANISM BLOCK



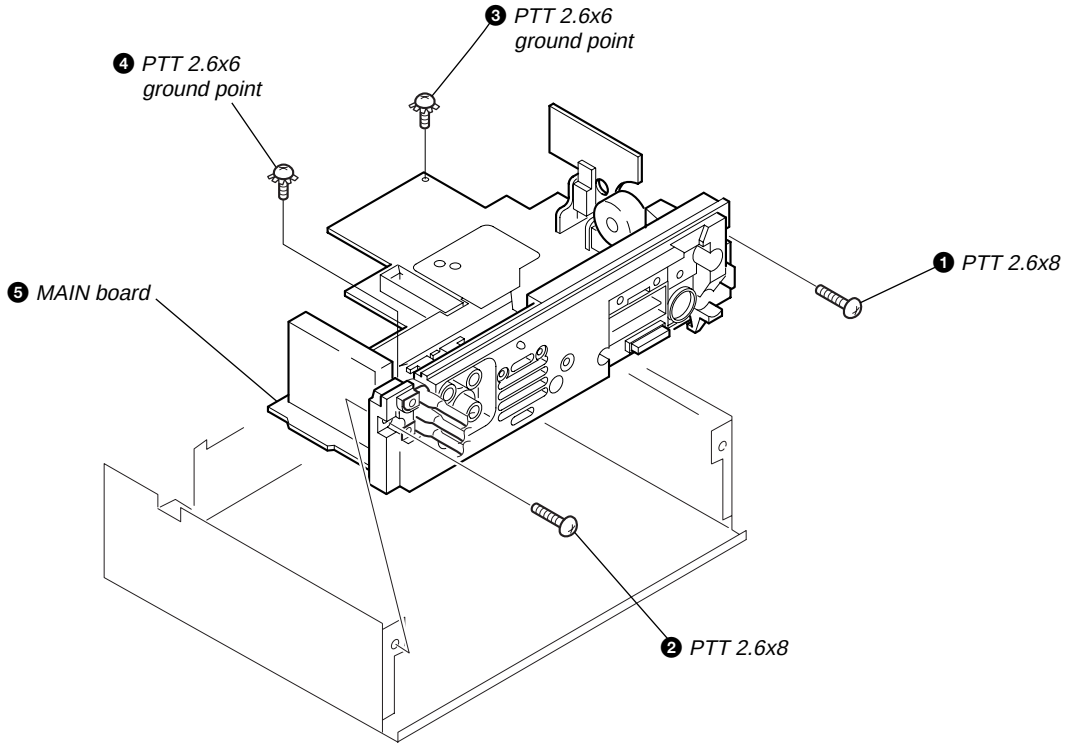
2-4. DIGITAL BOARD



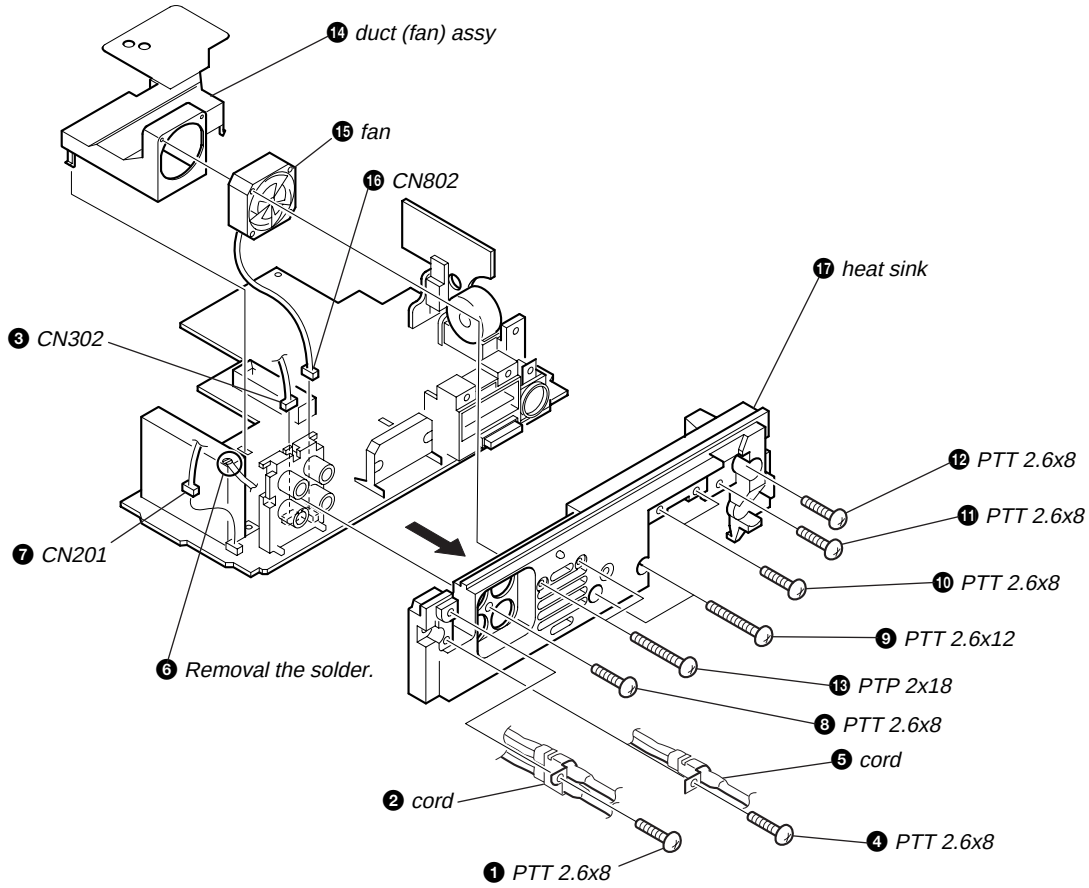
2-5. CAM BLOCK ASSY, MOTOR BLOCK ASSY



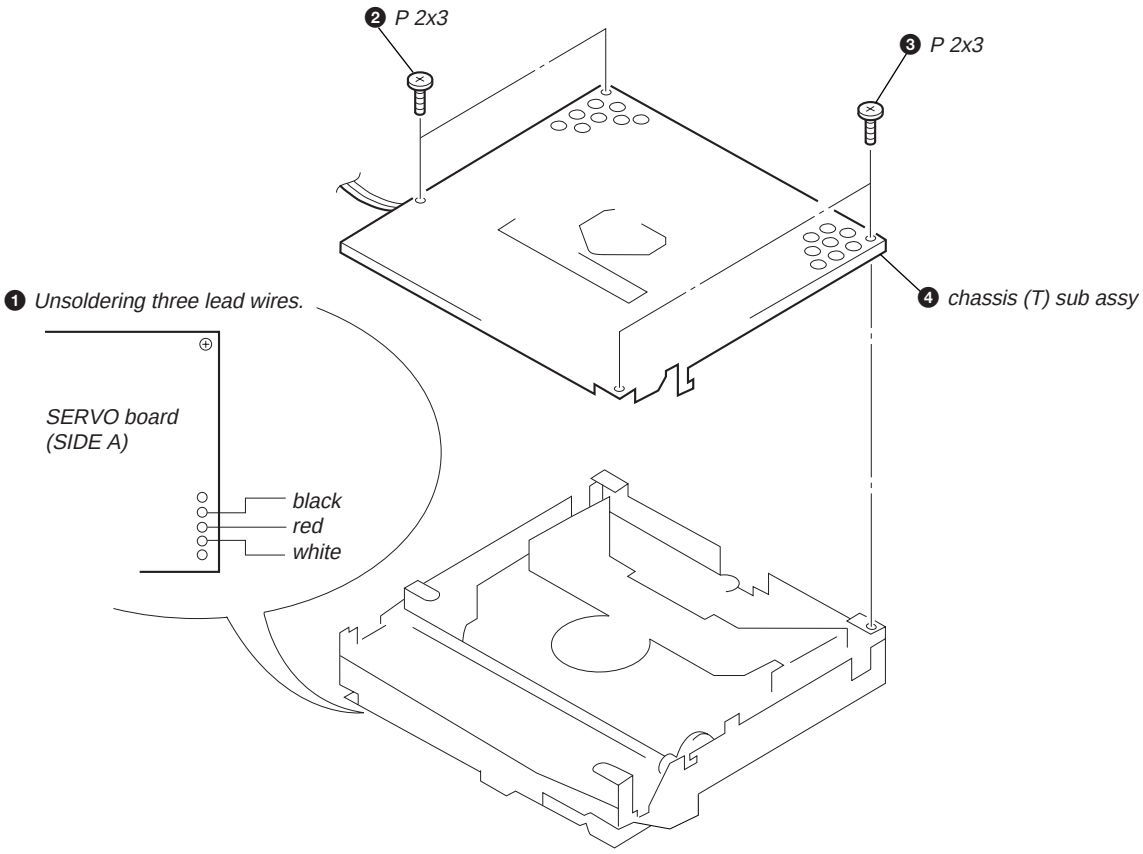
2-6. MAIN BOARD



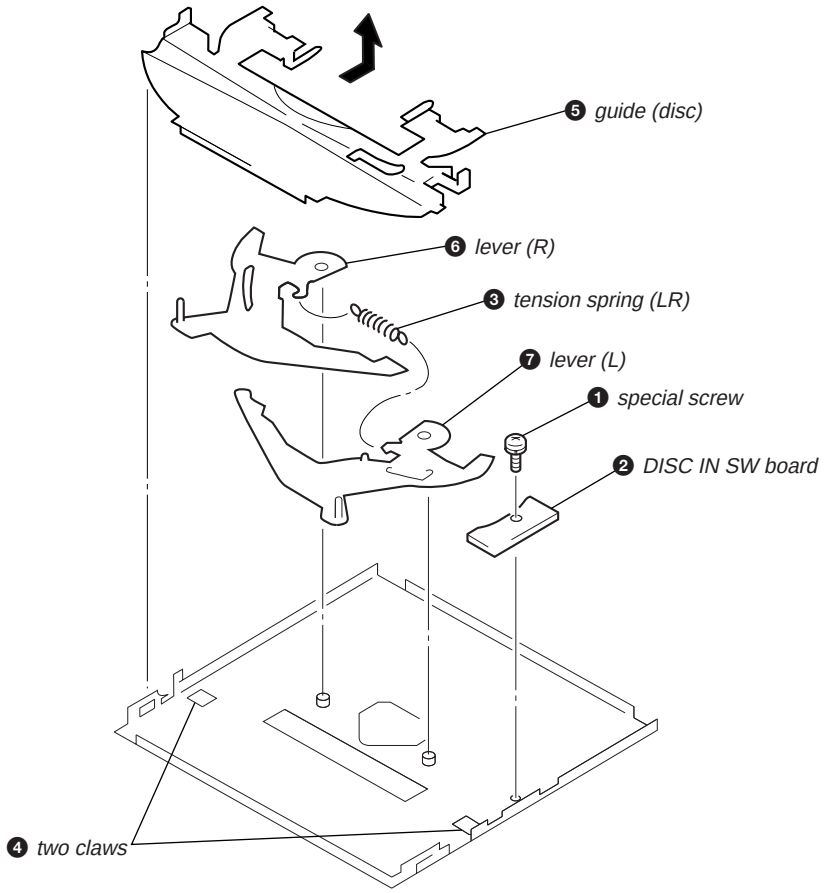
2-7. FAN, CHASSIS BACK



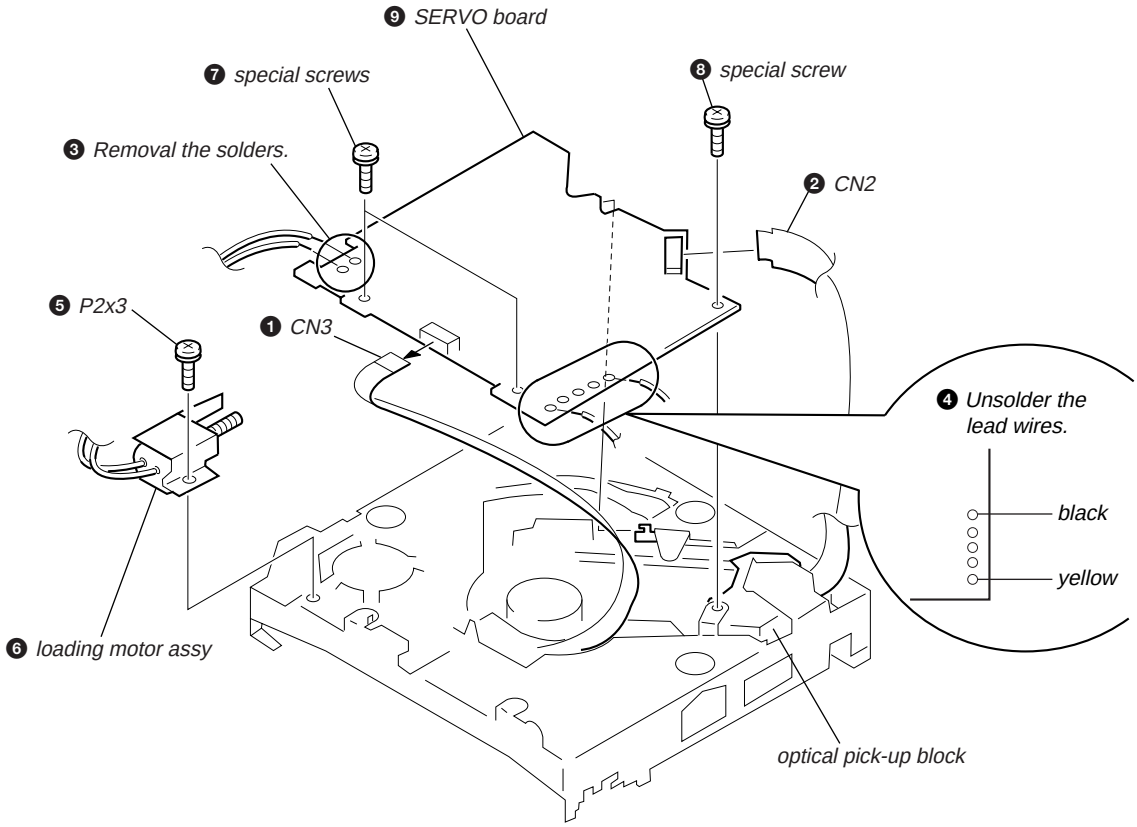
2-8. CHASSIS (T) SUB ASSY



2-9. LEVER SECTION



2-10. SERVO BOARD



2-11. SHAFT ROLLER ASSY, LOAD SW BOARD

• When installing, take note of the positions arm (roller) and washers. (Fig. 1)

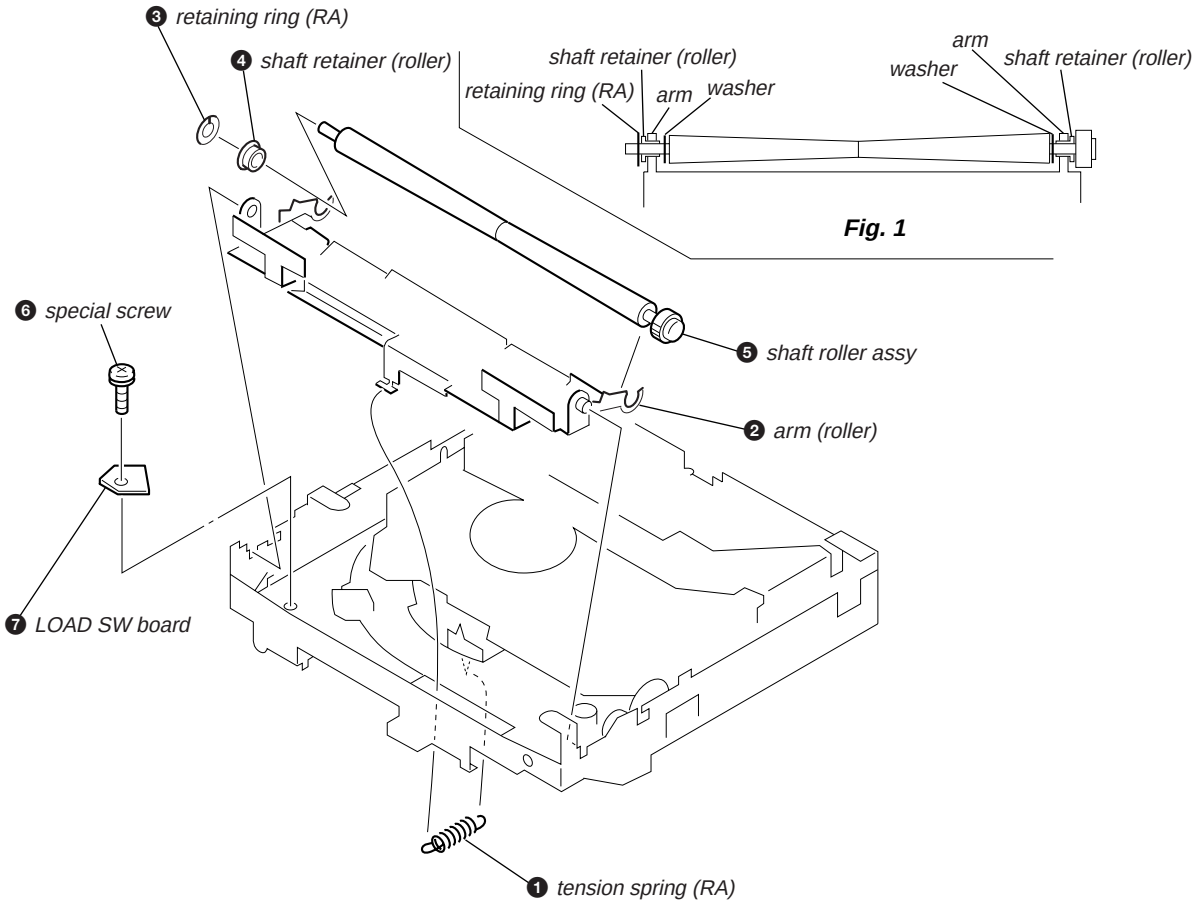
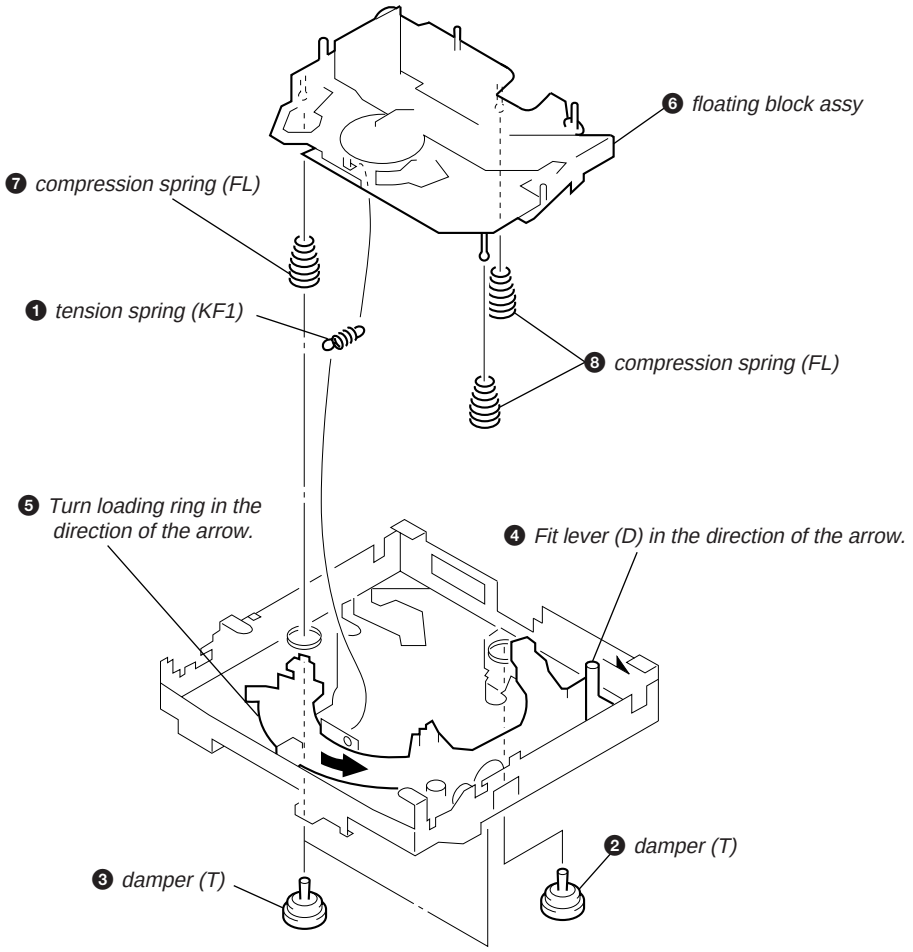
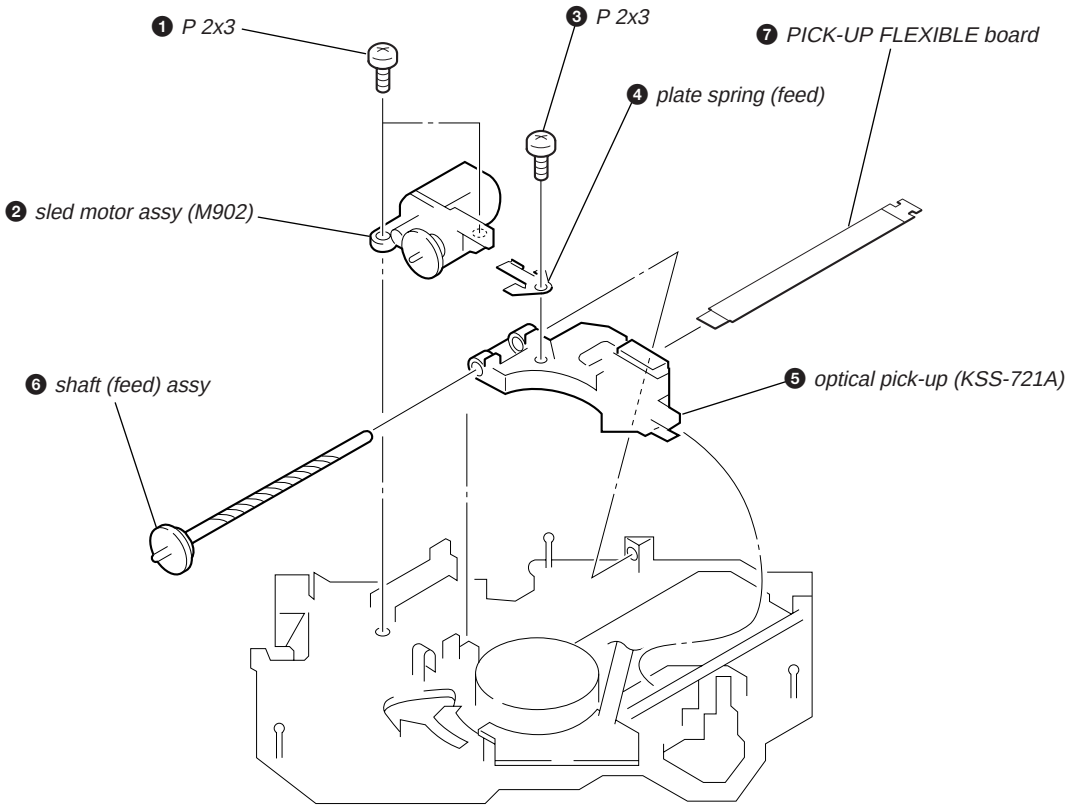


Fig. 1

2-12. FLOATING BLOCK ASSY


❻ floating block assy
❼ compression spring (FL)
❶ tension spring (KF1)
❽ compression spring (FL)
❺ Turn loading ring in the direction of the arrow.
❹ Fit lever (D) in the direction of the arrow.
❷ damper (T)
❸ damper (T)

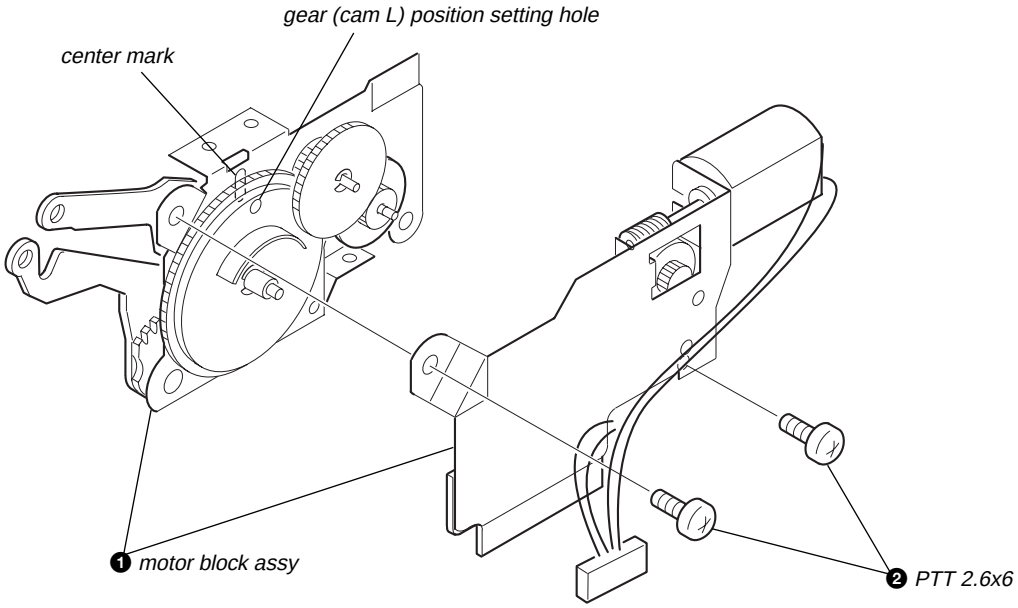
2-13. OPTICAL PICK-UP BLOCK



SECTION 3
PHASE ALIGNMENT

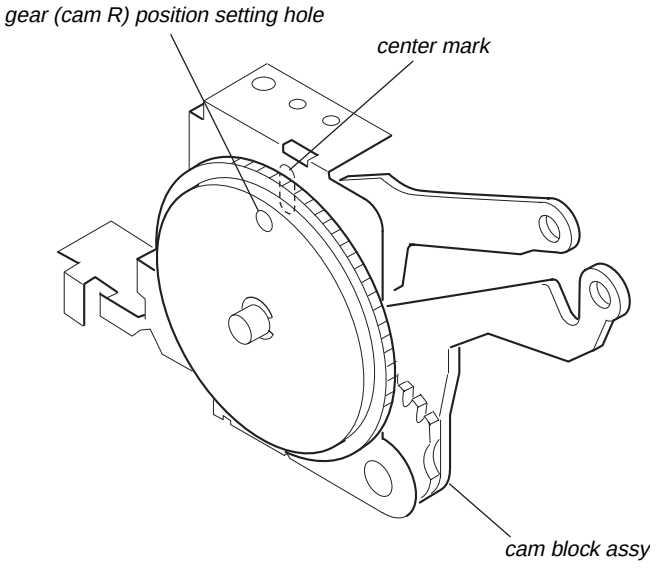
3-1. GEAR (CAM L)

• Align the gear (cam L) position setting hole with the center mark on the bracket before screwing the motor block assy to the mechanism chassis.



3-2. GEAR (CAM R)

① Align the gear (cam R) position setting hole with the center mark on the bracket before screwing the cam block assy to the mechanism chassis.
② Touch the gear (cam R) with fingers in the direction of rotation and make sure that there is no phase difference with the R-side position setting hole.



SECTION 4
DIAGRAMS

4-1. IC PIN DESCRIPTIONS

• IC5 CXD9684R-005 (DSP) (SERVO Board (1/2))

Pin No.	Pin Name	I/O	Pin Description
1	/RESET	I	Reset signal input (L: reset)
2	MIMD	I	Microcomputer interface mode selection signal input (H: I2C, L: TSB) (Fixed at H)
3, 4	AD0, AD1	O	External S-RAM address signal output 0, 1
5	MIDIO (I2C_SDA)	I/O	Serial data input/output
6	MICK (I2C_SCL)	I	Serial clock signal input
7	AD2	O	External S-RAM address signal output 2
8	VDDT (3.3V)	—	Power supply pin (+3.3 V) for digital circuit
9	SDO	O	Data output 0
10, 11	AD3, AD4	O	External S-RAM address signal output 3, 4
12	SDI0	I	Data input 0
13	BCKIA	I	Bit clock signal input A
14	LRCKIA	I	LR clock signal input A
15	AD5	O	External S-RAM address signal output 5
16	CE	O	External S-RAM chip enable signal output
17	OE	O	External S-RAM output enable signal output
18	VDD (2.5V)	—	Power supply pin (+2.5 V) for digital circuit
19	STANDBY	I	Standby mode control signal input (H: STB, L: normal)
20	VSS (2.5GND)	—	Ground for digital circuit
21	VSSL (2.5GND)	—	Ground for DAC L-ch
22	VRAL	—	Reference voltage pin for DAC L-ch
23	LO	O	DAC L-ch signal output (Open)
24	VDAL (2.5V)	—	Power supply pin (+2.5 V) for DAC L-ch
25	VDAR (2.5V)	—	Power supply pin (+2.5 V) for DAC R-ch
26	RO	O	DAC R-ch signal output (Open)
27	VRAR	—	Reference voltage pin for DAC R-ch
28	VSSR (2.5GND)	—	Ground for DAC R-ch
29	TESTP	I	Test pin (H: test mode, L: normal) (Fixed at L)
30	CKS	I	VCO selection signal input (H: VCO, L: X1 input) (Fixed at H)
31 to 34	AD12 to AD9	O	External S-RAM address signal output 12 to 9
35	VDDT (3.3V)	—	Power supply pin (+3.3 V) for digital circuit
36 to 38	AD8 to AD6	O	External S-RAM address signal output 8 to 6
39	REQ	O	Interrupt request signal output for CD master control IC
40	VSS	—	Ground for digital circuit
41, 42	AD13, AD14	O	External S-RAM address signal output 13, 14
43	WR	O	External S-RAM write signal output
44, 45	AD16, AD15	O	External S-RAM address signal output 16, 15
46, 47	IO0, IO1	I/O	External S-RAM data input/output 0, 1
48	VSS	—	Ground for digital circuit
49 to 51	IO2 to IO4	I/O	External S-RAM data input/output 2 to 4
52	VDD (2.5V)	—	Power supply pin (+2.5 V) for digital circuit
53 to 55	IO5 to IO7	I/O	External S-RAM data input/output 5 to 7
56	VSSP	—	Ground for VCO circuit
57	PDO	O	PLL phase error detection signal output
58	VCOI	I	VCO control voltage input
59	VDDP	—	Power supply pin (+2.5 V) for VCO circuit
60	XRDE	I/O	External clock input/audio clock output (Open)
61	VDDX (2.5V)	—	Power supply pin (+2.5 V) for oscillation circuit
62	XI	I	Resonator input
63	XO	O	Resonator output
64	VSSX	—	Ground for oscillation circuit

• IC3 HD6432238RWN35TEI (CD MASTER CONTROL) (SERVO Board (2/2))

Pin No.	Pin Name	I/O	Pin Description
1	TEST	I	Test mode selection signal input (Open)
2	DECXRST	O	Reset signal output for DSP IC (L: reset)
3	DECSTBY	O	Standby mode control signal output for DSP IC (H: standby)
4 to 7	NC	O	Not used (Open)
8	PH3	I	CD PH3 photo sensor detection signal input (Open)
9	INSW/PH2	I	CD mechanism disc in switch detection signal input
10	LIMIT_SW	I	CD mechanism limit switch detection signal input
11	D_SW	I	CD mechanism down switch detection signal input
12	CVCC	—	System power supply pin (+3.3 V)
13	NC	O	Not used (Open)
14	VSS	—	Ground
15	NC	O	Not used (Open)
16	PH1	I	CD PH1 photo sensor detection signal input (Open)
17	EJECT	O	CD mechanism loading motor control signal output (Eject direction)
18	LOAD	O	CD mechanism loading motor control signal output (Load direction)
19 to 26	NC	O	Not used (Open)
27	FLAG	I	Correction unable detection signal input
28	RFOK	I	RFOK signal input from digital servo IC
29, 30	NC	O	Not used (Open)
31	TXD	O	UART TXD PC connection output (Open)
32	RXD	I	UART RXD PC connection input (Open)
33	XTALEN	O	Crystal oscillation control signal output for digital servo IC
34	TSTB	O	CD text parameter strobe signal output for digital servo IC
35	STB	O	Data strobe signal output for digital servo IC
36	A0	O	Command/parameter identification signal output for digital servo IC (L: command, H: parameter)
37	CD_RST	O	Reset signal output for digital servo IC
38	PACK	I	CD text pack sync signal input from digital servo IC
39	NC	O	Not used (Open)
40	SELF_SW	I	CD mechanism self switch detection signal input
41	NC	O	Not used (Open)
42	AVSS	—	Analog ground
43, 44	NC	O	Not used (Open)
45, 46	NC	I	Not used (Open)
47, 48	KEY0, KEY1	I	Key switch signal input 0, 1 (Open)
49 to 52	NC	I	Not used (Open)
53	AVREF	—	A/D converter reference voltage pin (+3.3 V)
54	AVCC	—	A/D converter power supply pin (+3.3 V)
55, 56	MD0, MD1	I	Operation mode input 0, 1 (Fixed at H)
57	X1A	I	Sub clock oscillation signal input (Open)
58	X0A	O	Sub clock oscillation signal output (Open)
59	RSTX	I	Microcomputer reset signal input
60	NMI	—	Not used (Fixed at H)
61	STBY	—	Not used (Fixed at H)
62	VCC	—	Power supply pin (+3.3 V)
63	XTAL	I	Main clock oscillation signal input (12.288 MHz)
64	VSS	—	Ground
65	EXTAL	O	Main clock oscillation signal output (12.288 MHz)
66	FWE	I	Flash write enable signal input
67	MD2	I	Operation mode input 2
68	FL_BOOT	I	Flash write selection signal input (L: flash write mode)
69	FL-W	O	Flash write control signal output

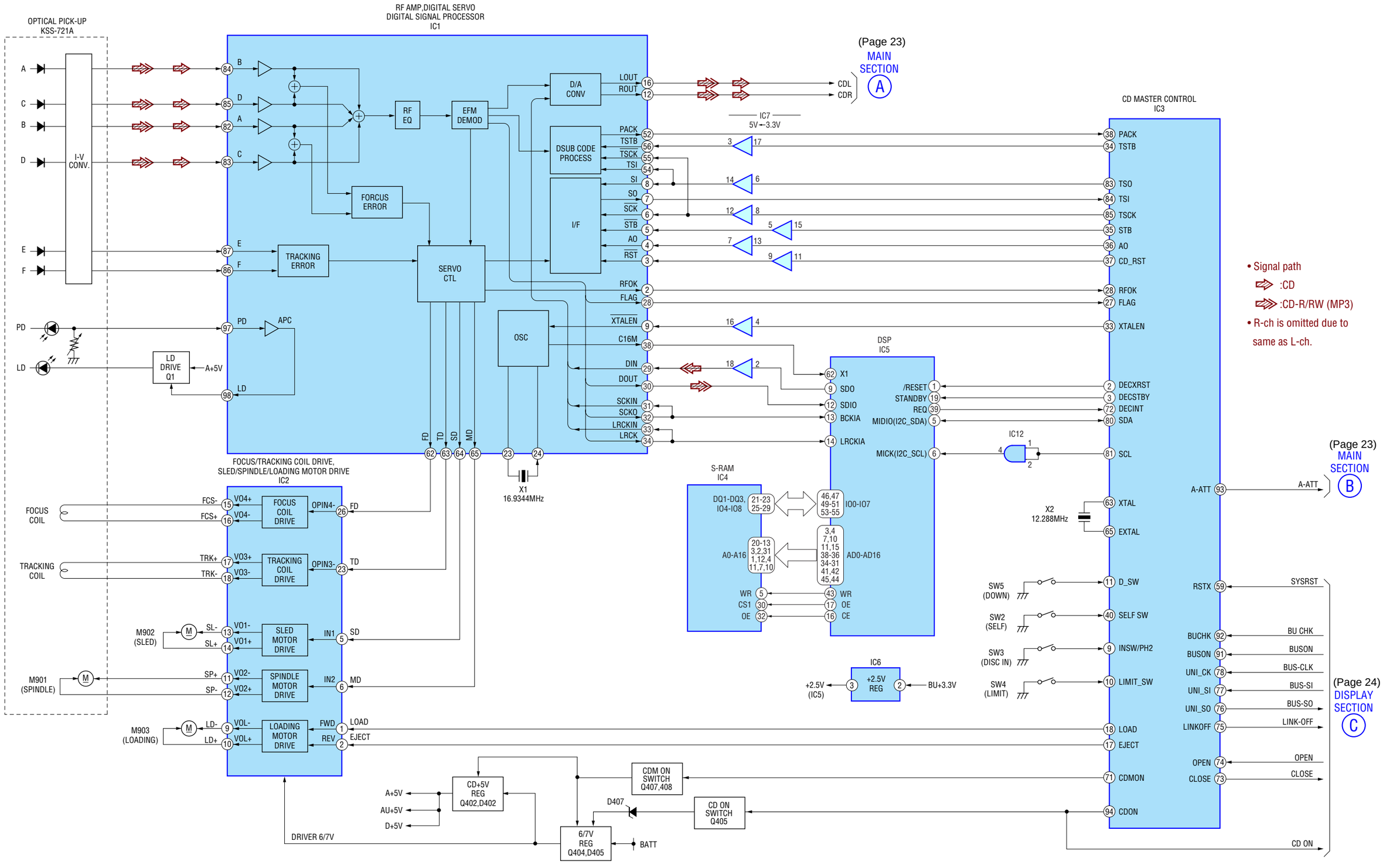
Pin No.	Pin Name	I/O	Pin Description
70	NC	O	Not used (Open)
71	CDMON	O	CD mechanism power supply control signal output
72	DECINT	I	Interrupt signal input from DSP IC
73	CLOSE	O	Front panel operation request signal output (Close)
74	OPEN	O	Front panel operation request signal output (Open)
75	LINKOFF	O	LINK OFF signal output (L: link on, H: link off)
76	UNI_SO	O	SONY-BUS serial data output
77	UNI_SI	I	SONY-BUS serial data input
78	UNI_CK	I	SONY-BUS serial clock signal input
79	NC	O	Not used (Open)
80	SDA	I/O	I2C interface data input/output
81	SCL	O	I2C interface clock signal output
82	NC	O	Not used (Open)
83	TSO	O	Serial data output for digital servo IC
84	TSI	I	Serial data input from digital servo IC
85	TSCK	O	Serial clock signal output for digital servo IC
86	LEDDAT	O	LED data output (Open)
87	LEDCLK	O	LED clock signal output (Open)
88	LEDLAT	O	LED latch signal output (Open)
89,90	NC	O	Not used (Open)
91	BUSON	I	SONY-BUS BUS ON signal input
92	BUCHK	I	Back-up power supply detection signal input
93	A-ATT	O	Audio mute control signal output
94	CDON	O	Power control signal output (L: during loading, H: servo on)
95	NC	O	Not used (Open)
96	U/J_SEL	I	Destination selection signal input (Fixed at L)
97	TEXTSEL	I	CD text function setting signal input (Fixed at L)
98	NC	O	Not used (Open)
99	CFSEL	I	Custom file function setting signal input (Fixed at L)
100	DOUT_SEL	I	Digital output selection setting signal input (H: digital out available)

• IC501 MB90574CPMT-G-401-BNDE1 (SYSTEM CONTROL) (MAIN Board (3/4)) (CDX-M3DI)
IC501 MB90574CPMT-G-402-BNDE1 (SYSTEM CONTROL) (MAIN Board (3/4)) (CDX-M1000TF)

Pin No.	Pin Name	I/O	Pin Description
1 to 5	NCO	O	Not used (Open)
6	ATT	O	System mute control signal output
7	$\overline{\text{SYSRST}}$	O	System reset signal output
8	VCC	—	Power supply pin (+5 V)
9	NCO	O	Not used (Open)
10	T.ROM-SDA	I/O	Tuner EEPROM data input/output
11	T.ROM-SCK	O	Tuner EEPROM clock signal output
12	SH3SI/FLSSI	I	SH3 communication signal input (RXD)/Flash write data input
13	SH3SO/FLSSO	O	SH3 communication signal output (TXD)/Flash write data output
14	$\overline{\text{BUSON}}$	O	BUS ON control signal output
15	BEEP	O	Beep signal output
16	NCO	O	Not used (Open)
17	UNISI	I	SONY-BUS serial data input
18	UNISO	O	SONY-BUS serial data output
19	UNICKO	O	SONY-BUS serial clock signal output
20 to 23	NCO	O	Not used (Open)
24	SIRCS	I	Remote commander data input
25 to 30	NCO	O	Not used (Open)
31	$\overline{\text{VOLATT}}$	O	Electronic volume mute signal output
32	UNI_AU	O	SONY-BUS audio in/AUX audio in selection control signal output (H: SONY-BUS audio, L: AUX audio)
33	VSS	—	Ground
34	C	—	Not used (Open)
35	$\overline{\text{CDON\_IN}}$	I	CD ON signal input
36	NCO	O	Not used (Open)
37	FSW_SFT	O	Frequency control signal output for DC-DC converter.
38	DVCC	—	D/A converter power supply (+) pin (+5 V)
39	DVSS	—	D/A converter power supply (–) pin (0 V)
40	FAN	O	Fan motor control signal output
41	NCO	O	Not used (Open)
42	AVCC	—	Analog power supply pin (+5 V)
43	AVRH	—	A/D converter power supply (+) pin (+5 V)
44	AVRL	—	A/D converter power supply (–) pin (0 V)
45	AVSS	—	Analog ground
46	KEYIN0	I	Key signal input
47	TEMP-TR	I	Temperature detection signal input for tray and front panel motor control.
48	NCO	O	Not used (Fixed at L)
49	FP-IDET	I	Front panel operation current detection signal input
50	QUALITY (RDS)	I	Tuner noise detection signal input (CDX-M1000TF only)
51	NCO	O	Not used (Open)
52	RC_IN0	I	Rotary commander signal input 0 (CDX-M1000TF only)
53	VSM	I	Tuner s-meter voltage input
54	VCC	—	Power supply pin (+5 V)
55	AMP_ON	O	AMP ON signal output
56	NS_MASK	O	Tuner noise mask signal output (CDX-M1000TF only)
57	DDC-ON	O	Centralized power supply control signal output
58	EJECTOK	O	Front panel open state signal output
59	OPENREQ	I	Front panel operation request signal input
60	LED_ON	O	At front panel to open, tray illumination ON signal output.
61, 62	NCO	O	Not used (Open)
63	VSS	—	Ground
64	NCO	O	Not used (Open)
65	FSW_IN	I	DC-DC converter oscillation frequency count signal input
66	$\overline{\text{TU\_MUTE}}$	O	Tuner mute signal output
67	$\overline{\text{MUTE\_CON}}$	I	Mute condition signal input
68	NCO	O	Not used (Open)
69	$\overline{\text{FLASHW}}$	I	Flash write mode detection signal input
70	I2CSIO	I/O	Tuner and electronic volume communication data output
71	I2CCKO	O	Tuner and electronic volume communication clock signal output
72	KEY_ACK	I	Key acknowledge detection signal input
73	X1A	I	Low-speed oscillation signal input (32.768 kHz)
74	X0A	O	Low-speed oscillation signal output (32.768 kHz)
75	$\overline{\text{DAVN (RDS)}}$	I	RDS data block synchronization detection signal input (CDX-M1000TF only)
76	NCO	O	Not used (Open)
77	BU_IN	I	Back-up power supply detection signal input
78, 79	NCO	O	Not used (Open)
80	$\overline{\text{AD-ON}}$	O	A/D converter power supply control signal output
81	$\overline{\text{ACC\_IN}}$	I	Accessory power supply detection signal input
82	FLASH_P_ON	O	Flash write communication signal selection control output
83	POWON	O	System power supply control signal output
84	NCO	O	Not used (Open)
85	RAMBU	I	RAM reset detection signal input
86	HSTX	I	Hardware standby signal input
87	MD2	I	Operation mode input 2 (Fixed at L)
88, 89	MD1, MD0	I	Operation mode input 1, 0 (Fixed at H)
90	RSTX	I	Microcomputer reset signal input
91	VSS	—	Ground
92	X0	O	High-speed oscillation signal output (3.68 MHz)
93	X1	I	High-speed oscillation signal input (3.68 MHz)
94	VCC	—	Power supply pin (+5 V)
95	$\overline{\text{TEST\_IN}}$	I	Test mode setting detection signal input
96	$\overline{\text{ILL\_IN}}$	I	Illumination line detection signal input
97	MOT–	O	Open/close motor control signal output (–)
98	MOT+	O	Open/close motor control signal output (+)
99	$\overline{\text{CLOSE\_SW}}$	I	Open/close panel position detection signal input (L: close)
100	$\overline{\text{OPEN\_SW}}$	I	Open/close panel position detection signal input (L: open)
101	MOTOR_ON	O	Motor power supply ON signal output
102	TELATT	I	Telephone attenuator detection signal input
103	NCO	O	Not used (Open)
104	DSTSEL1	I	Destination selection signal input 1 (Fixed at L)
105	DSTSEL2	I	Destination selection signal input 2 (Fixed at L)
106	DEBUG	I	Not used (Fixed at L)
107	NCO	O	Not used (Open)
108	RC_IN1	I	Rotary commander signal input 1 (CDX-M1000TF only)
109	NCO	O	Not used (Open)
110	BOOST	O	At low-temperature, TFT back light boost control signal output
111 to 113	NCO	O	Not used (Open)
114	DP_18VO	O	Power supply ON/OFF control signal output (+1.8 V)
115	TUNON	O	Tuner ON signal output
116	MST_PW	O	Power supply ON state information signal output for SH3.
117	$\overline{\text{DP\_PW}}$	I	Communication possible state information signal input from SH3.
118	DP_RST	O	SH3 reset signal output
119	VSS	—	Ground
120	NCO	O	Not used (Open)

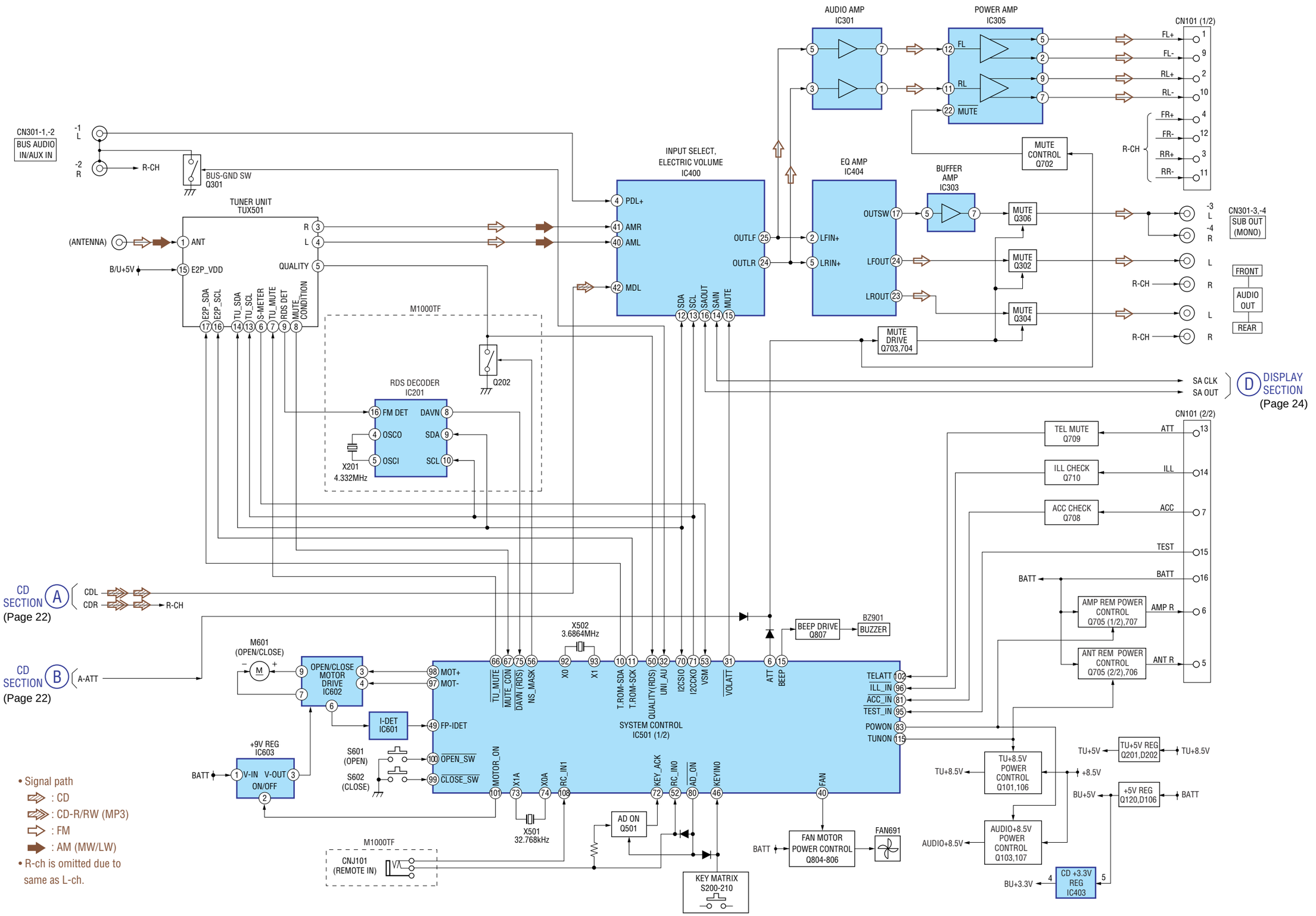
21

4-2. BLOCK DIAGRAM — CD SECTION —

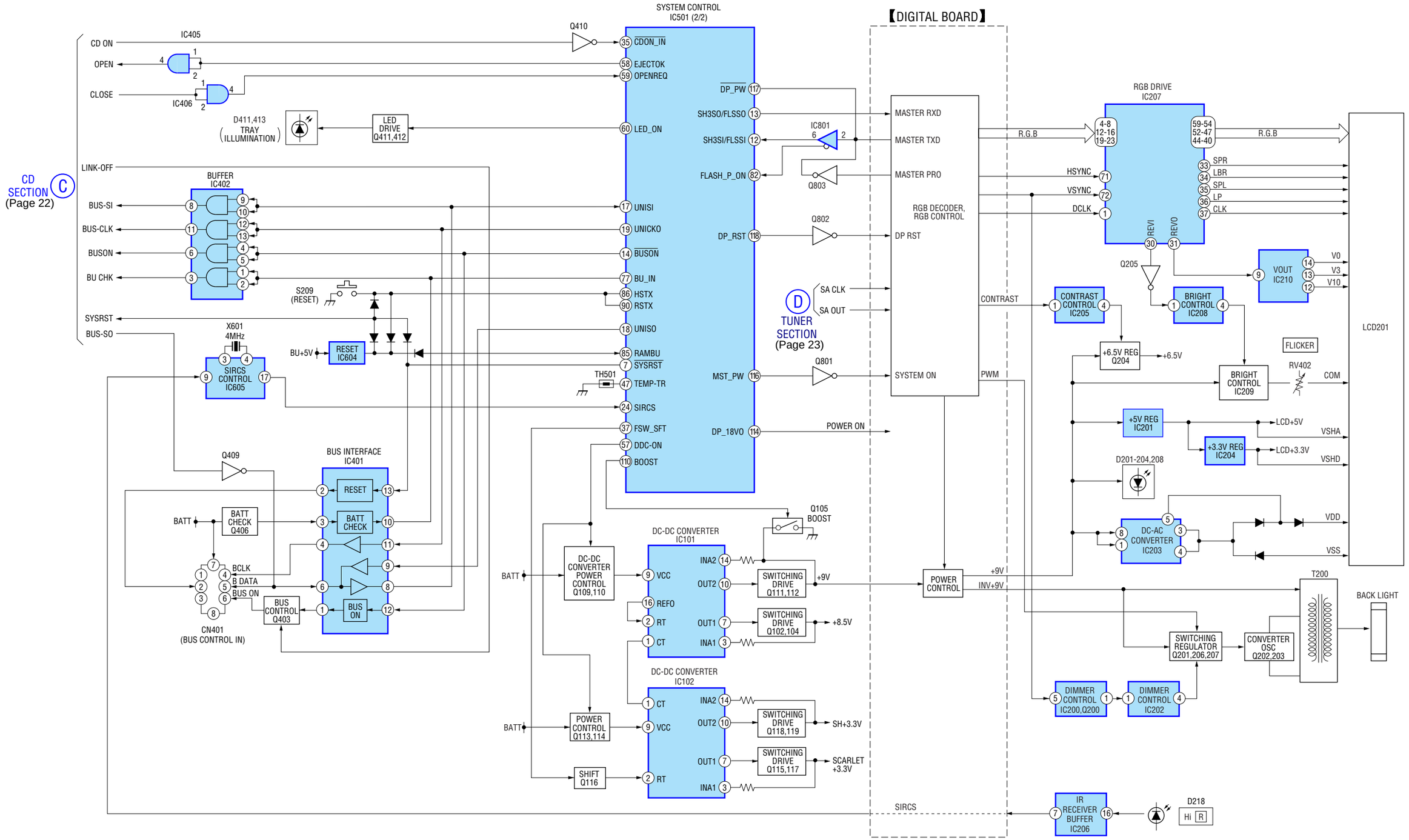


- Signal path
  - :CD
  - :CD-R/RW (MP3)
- R-ch is omitted due to same as L-ch.

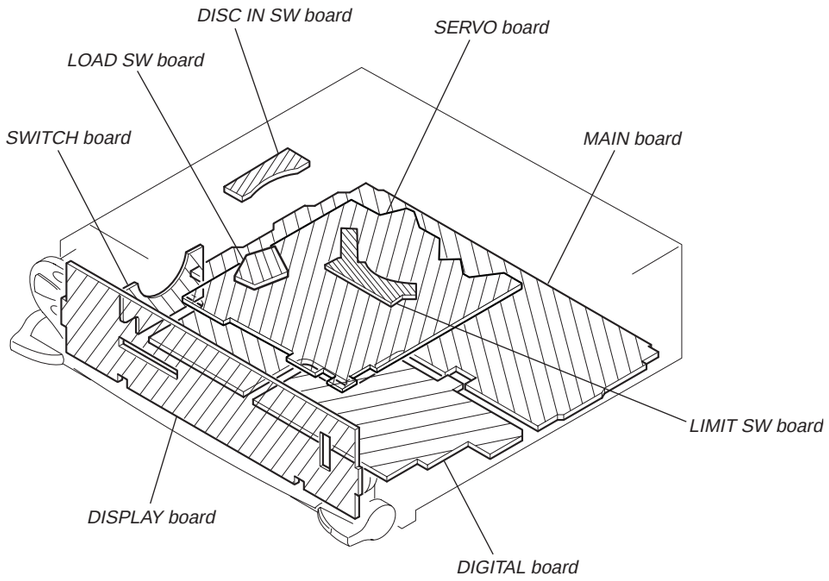
4-3. BLOCK DIAGRAM — MAIN SECTION —



4-4. BLOCK DIAGRAM — DISPLAY SECTION —



4-5. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

for schematic diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- ▬ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : AM (MW/LW)
  - ⇨ : CD
  - ⇨ : CD-R/RW (MP3)

for printed wiring boards:

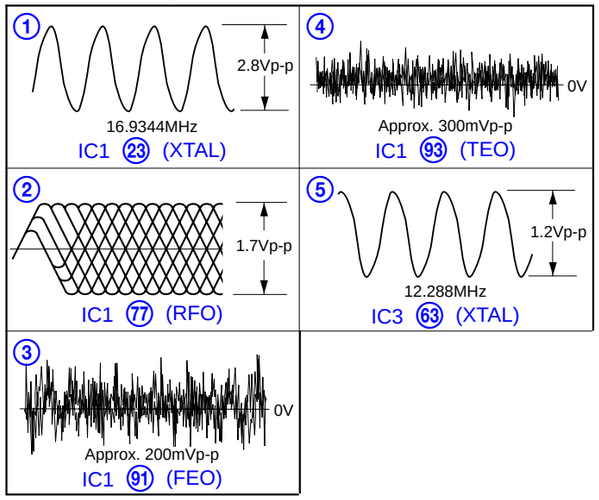
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

Caution:
Pattern face side: (Side B) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A) Parts on the parts face side seen from the parts face are indicated.

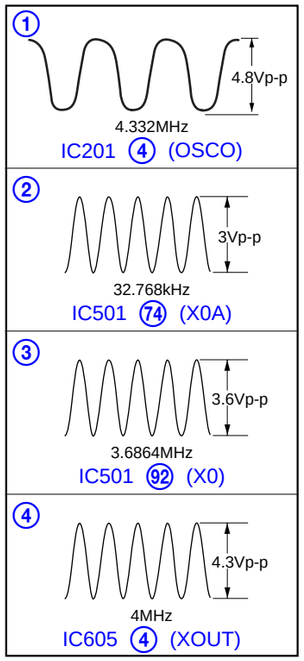
• Waveforms

— Servo Board —

(MODE: CD PLAY)



— Main Board —



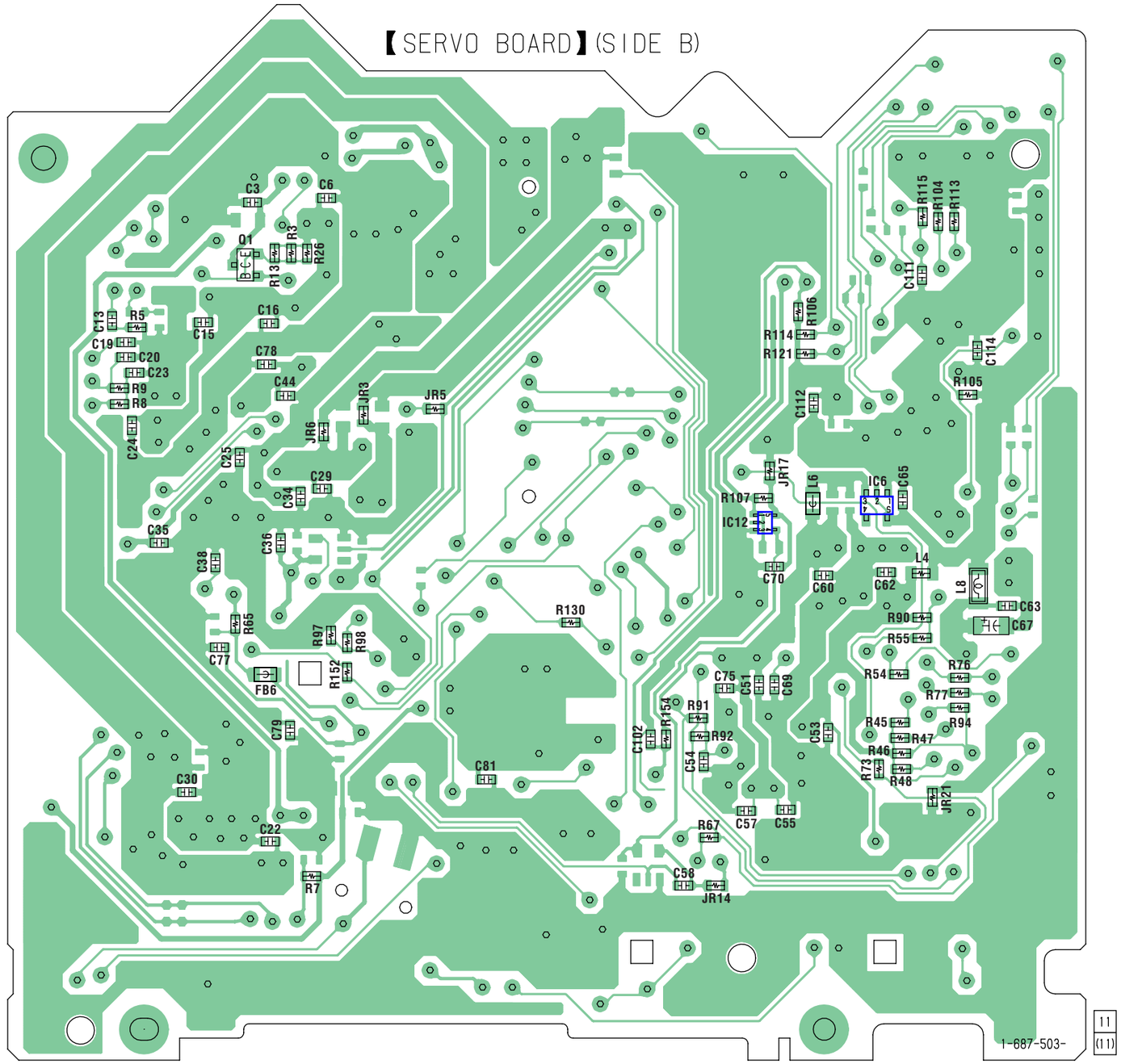
4-6. PRINTED WIRING BOARD — CD MECHANISM SECTION (1/2) — • Refer to page 25 for Common Note on Printed Wiring Boards.

14 13 12 11 10 9 8 7 6 5 4 3 2 1

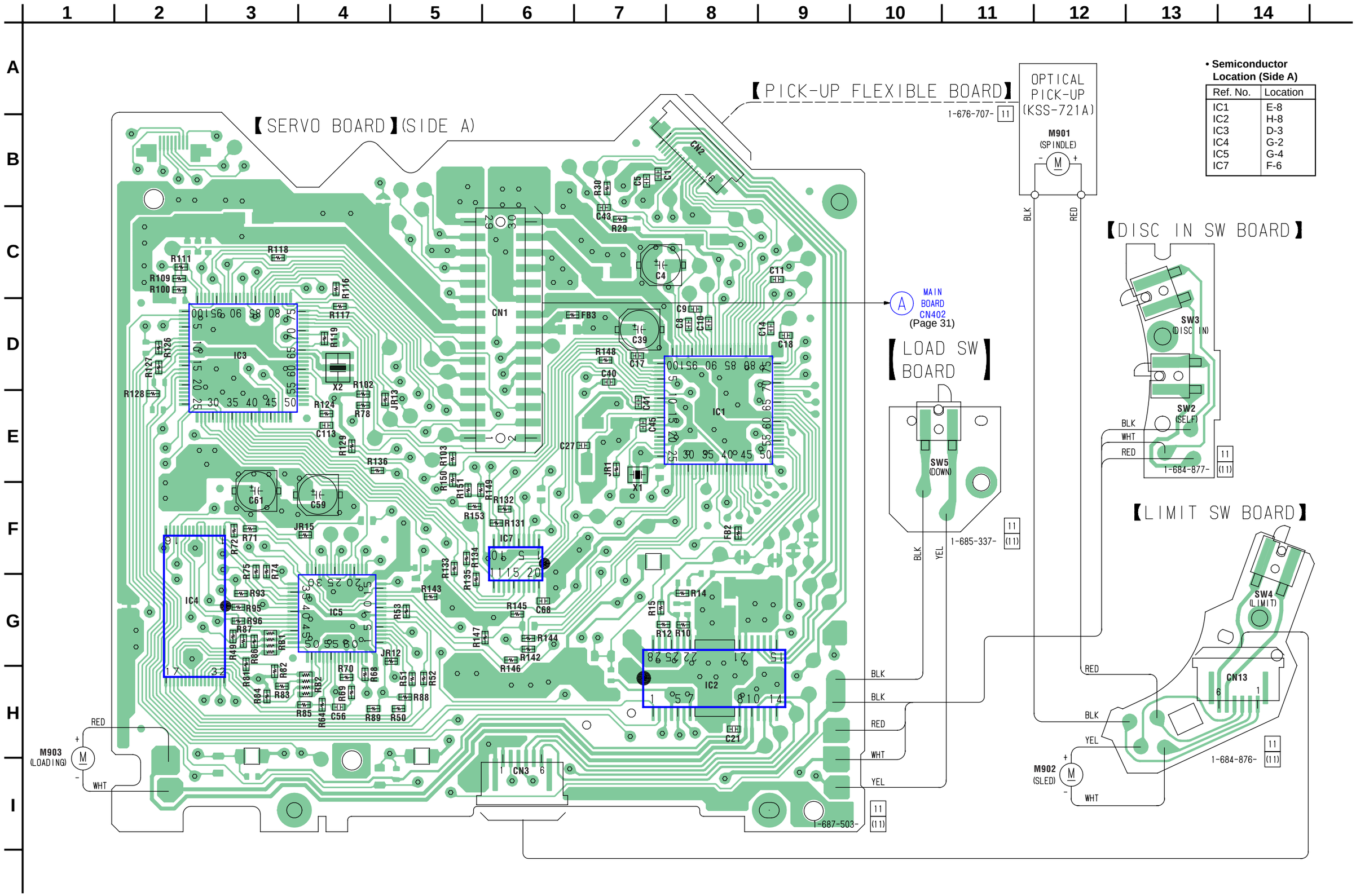
A B C D E F G H I

• Semiconductor Location (Side B)

Ref. No.	Location
IC6	E-3
IC12	E-4
Q1	C-8



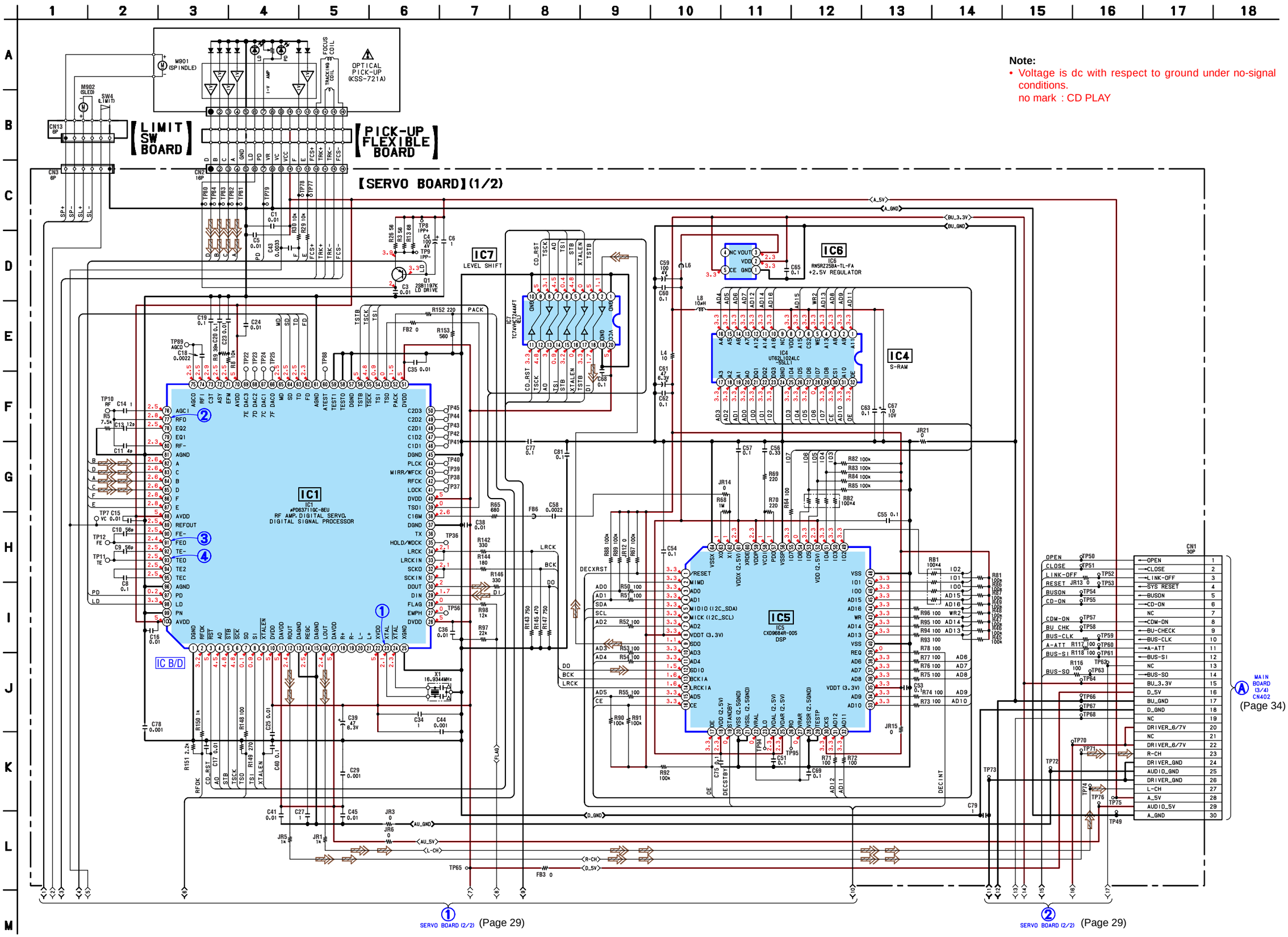
4-7. PRINTED WIRING BOARDS — CD MECHANISM SECTION (2/2) — **• Refer to page 25 for Common Note on Printed Wiring Boards.**



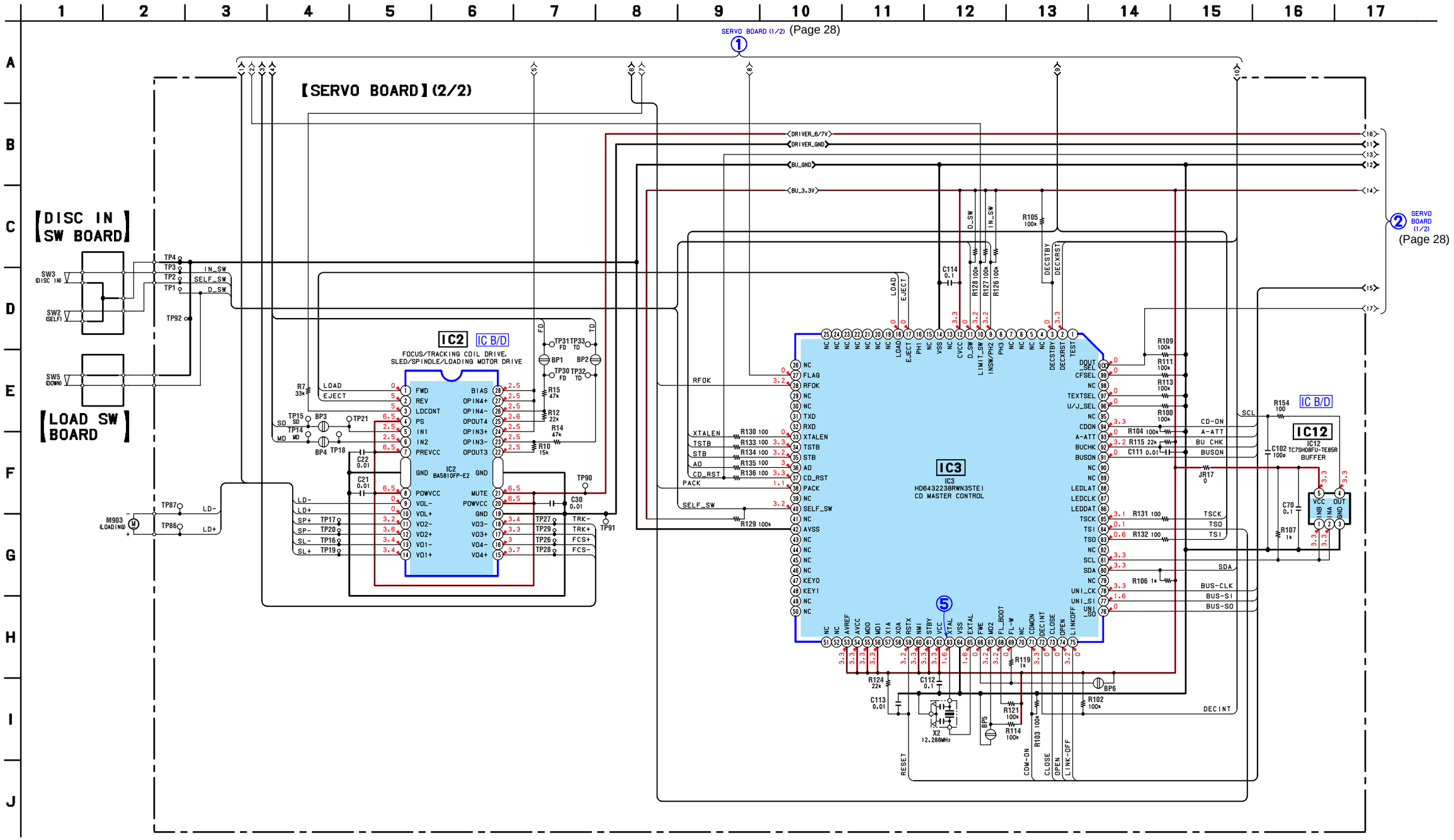
• **Semiconductor Location (Side A)**

Ref. No.	Location
IC1	E-8
IC2	H-8
IC3	D-3
IC4	G-2
IC5	G-4
IC7	F-6

4-8. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) — • Refer to page 25 for Waveforms and Common Note on Schematic Diagram, and page 38 for IC Block Diagrams.



4-9. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (2/2) — • Refer to page 25 for Waveforms and Common Note on Schematic Diagram, and page 38 for IC Block Diagrams.



Note:
- Voltage is dc with respect to ground under no-signal conditions.
  no mark : CD PLAY

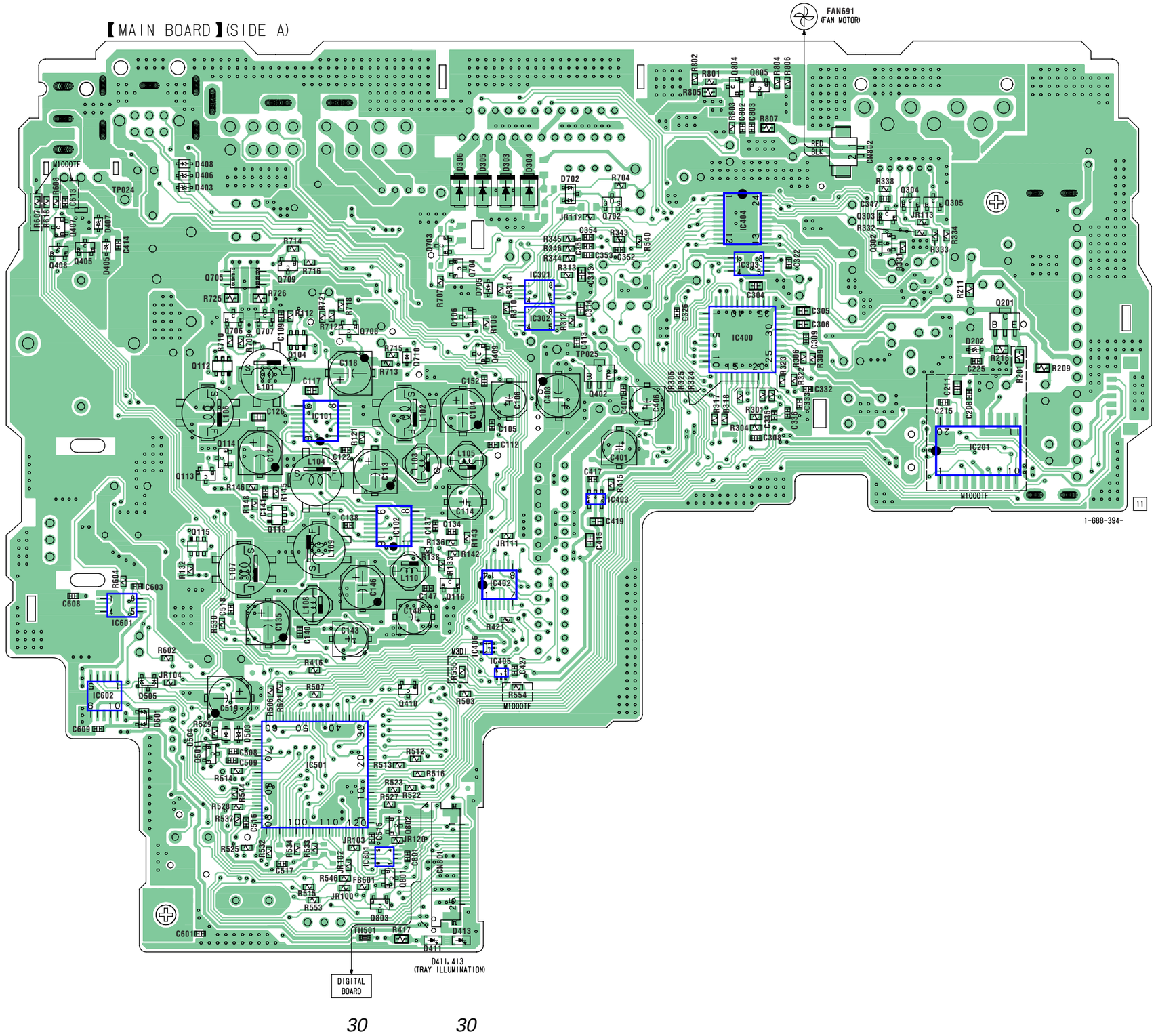
4-10. PRINTED WIRING BOARD — MAIN SECTION (1/2) — • Refer to page 25 for Common Note on Printed Wiring Boards.

• **Semiconductor Location (Side A)**

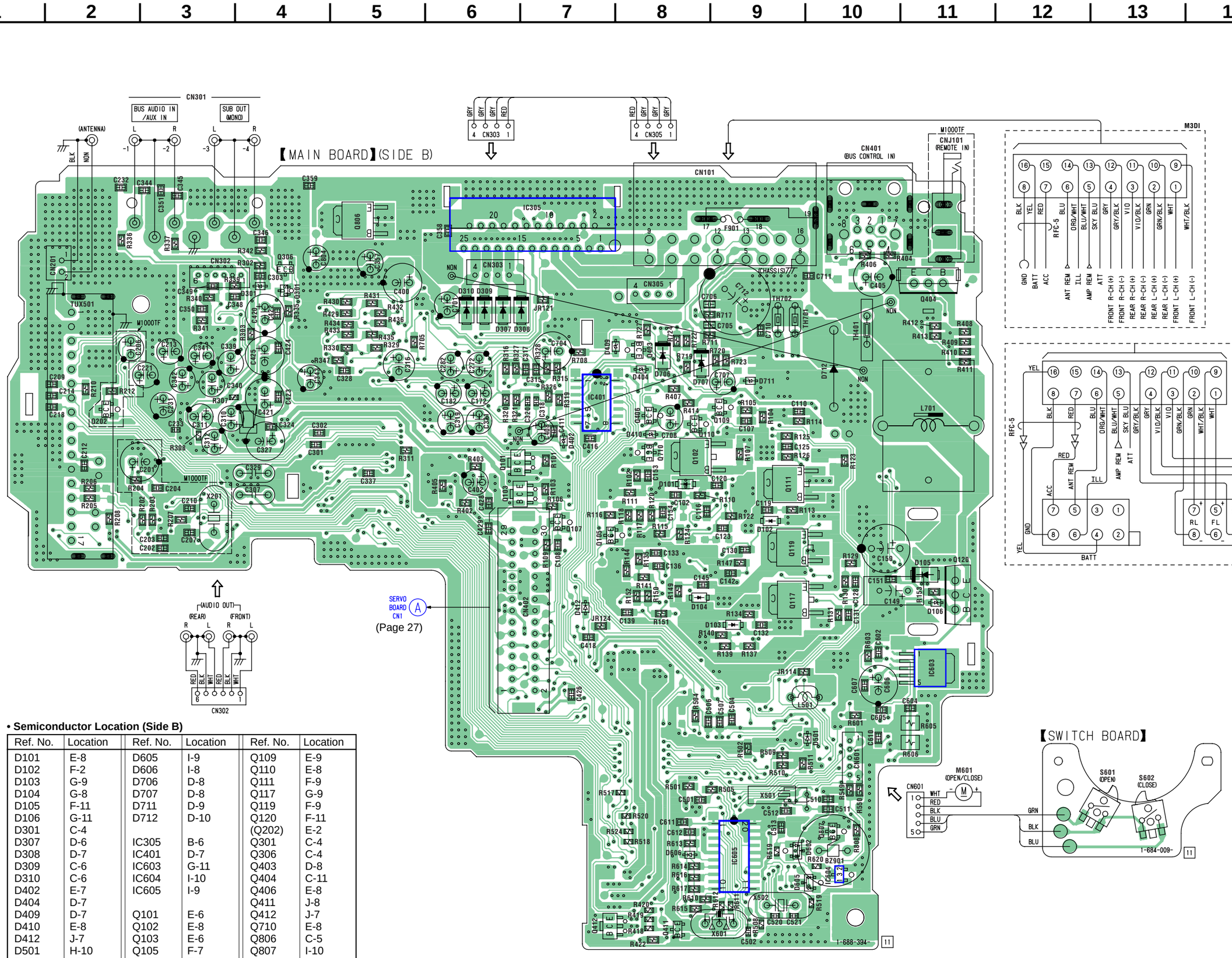
Ref. No.	Location	Ref. No.	Location
D202	E-3	IC801	I-8
D303	C-7		
D304	C-7	Q104	E-9
D305	C-7	Q106	D-7
D306	C-7	Q112	E-10
D403	C-10	Q113	F-10
D405	D-11	Q114	F-10
D406	C-10	Q115	G-10
D407	D-11	Q116	G-7
D408	C-8	Q118	F-9
D411	J-8	Q201	E-2
D413	J-7	Q302	C-4
D503	H-9	Q303	C-4
D504	H-9	Q304	C-3
D505	H-10	Q305	C-3
D601	H-10	Q402	E-6
D702	C-6	Q405	D-11
D705	D-7	Q407	D-11
D710	E-8	Q408	D-11
		Q409	E-7
IC101	E-9	Q410	H-8
IC102	F-8	Q501	H-10
(IC201)	F-3	Q702	C-6
IC301	D-7	Q703	D-8
IC302	D-7	Q704	D-7
IC303	D-5	Q705	D-9
IC400	E-5	Q706	D-9
IC402	G-7	Q707	E-9
IC403	F-6	Q708	E-8
IC404	D-5	Q709	D-9
IC405	H-7	Q801	J-8
IC406	H-7	Q802	I-8
IC501	I-9	Q803	J-8
IC601	G-10	Q804	B-5
IC602	H-11	Q805	B-5

( ): CDX-M1000TF only

【MAIN BOARD】(SIDE A)



4-11. PRINTED WIRING BOARDS — MAIN SECTION (2/2) — • Refer to page 25 for Common Note on Printed Wiring Boards.

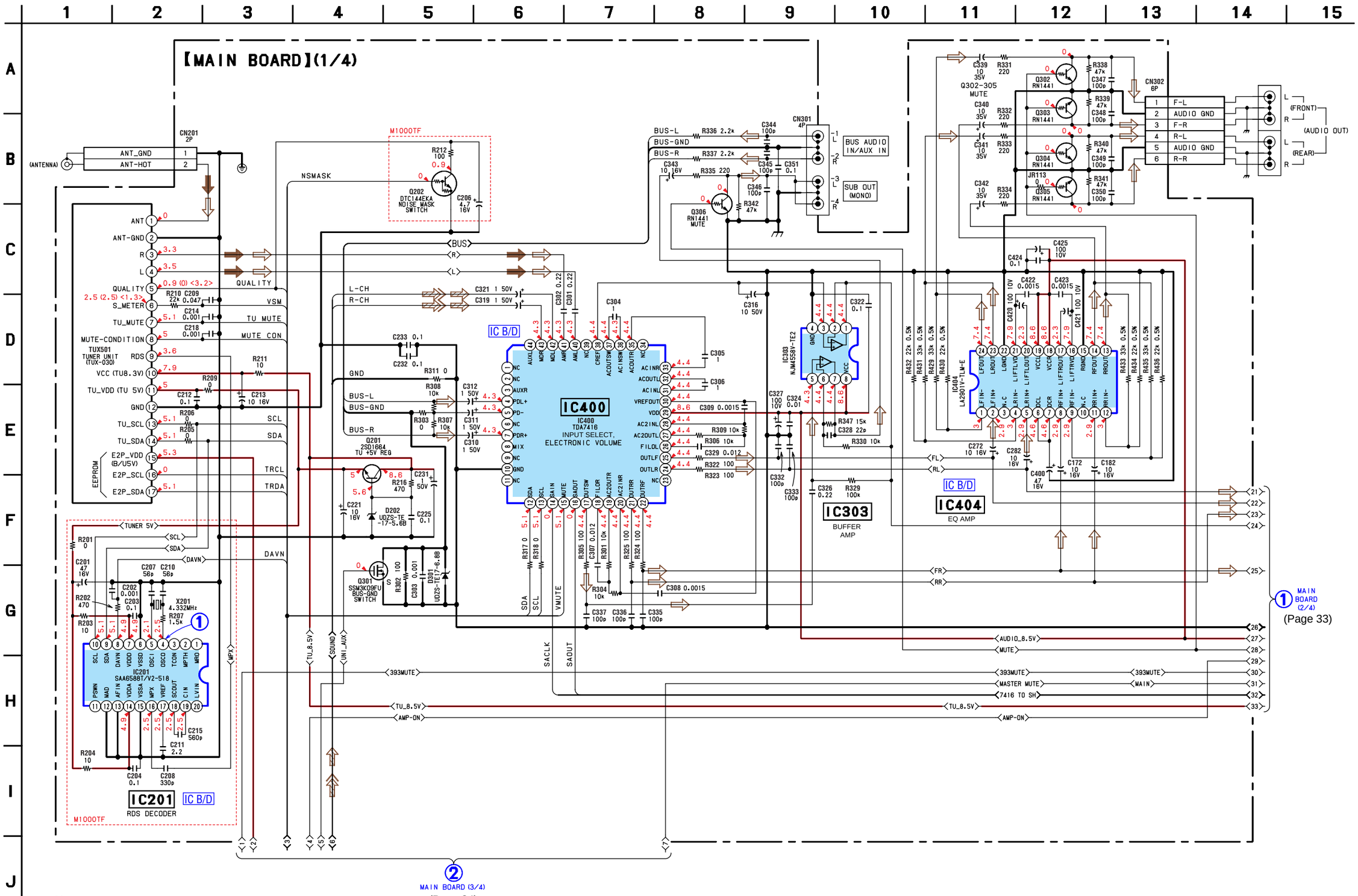


• **Semiconductor Location (Side B)**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	E-8	D605	I-9	Q109	E-9
D102	F-2	D606	I-8	Q110	E-8
D103	G-9	D706	D-8	Q111	F-9
D104	G-8	D707	D-8	Q117	G-9
D105	F-11	D711	D-9	Q119	F-9
D106	G-11	D712	D-10	Q120	F-11
D301	C-4			(Q202)	E-2
D307	D-6	IC305	B-6	Q301	C-4
D308	D-7	IC401	D-7	Q306	C-4
D309	C-6	IC603	G-11	Q403	D-8
D310	C-6	IC604	I-10	Q404	C-11
D402	E-7	IC605	I-9	Q406	E-8
D404	D-7			Q411	J-8
D409	D-7	Q101	E-6	Q412	J-7
D410	E-8	Q102	E-8	Q710	E-8
D412	J-7	Q103	E-6	Q806	C-5
D501	H-10	Q105	F-7	Q807	I-10
D602	I-9	Q107	F-7		

( ): CDX-M1000TF only

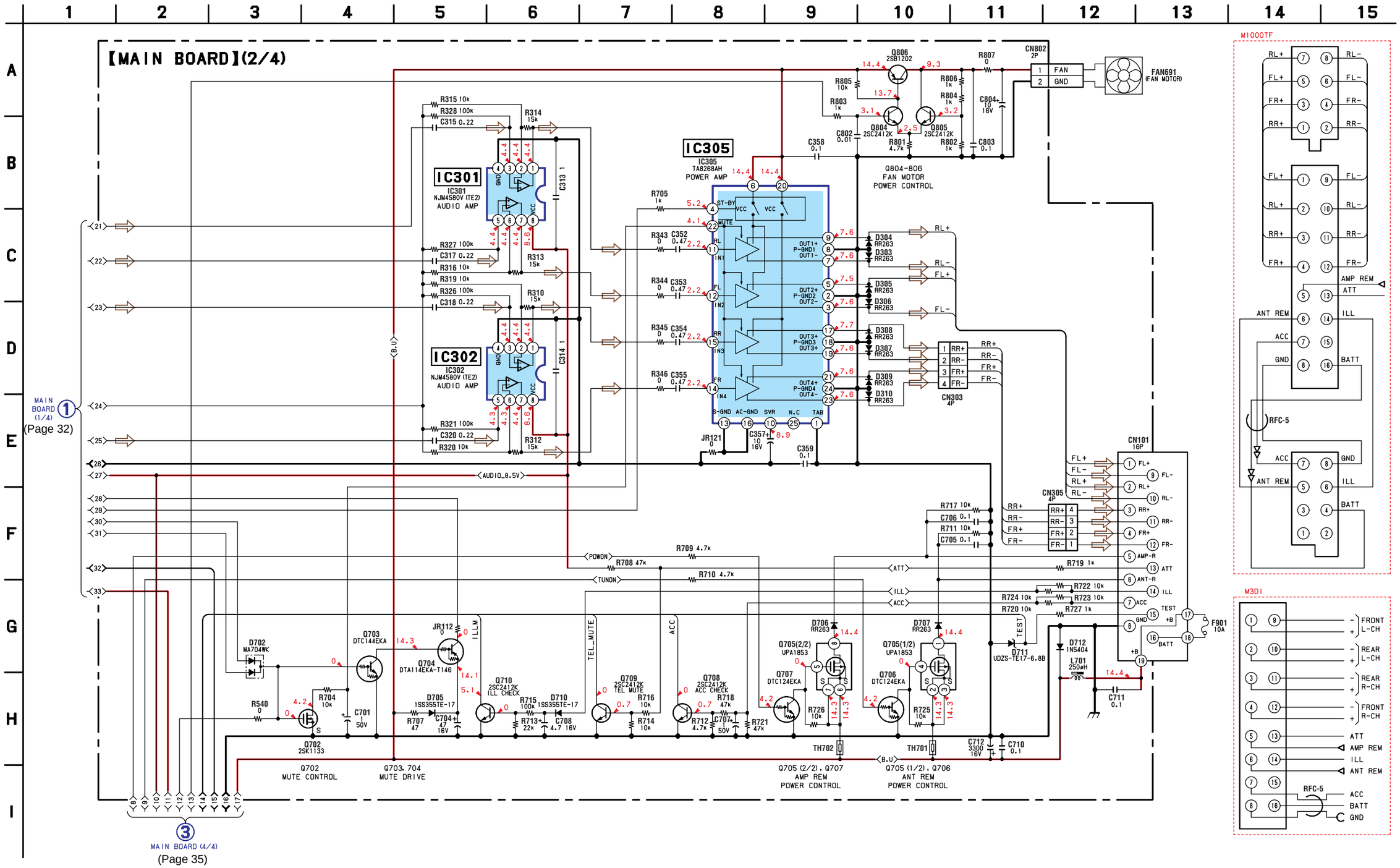
4-12. SCHEMATIC DIAGRAM — MAIN SECTION (1/4) — • Refer to page 25 for Waveforms and Common Note on Schematic Diagram, and page 38 for IC Block Diagrams.



Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : AM or MW
  < > : CD PLAY

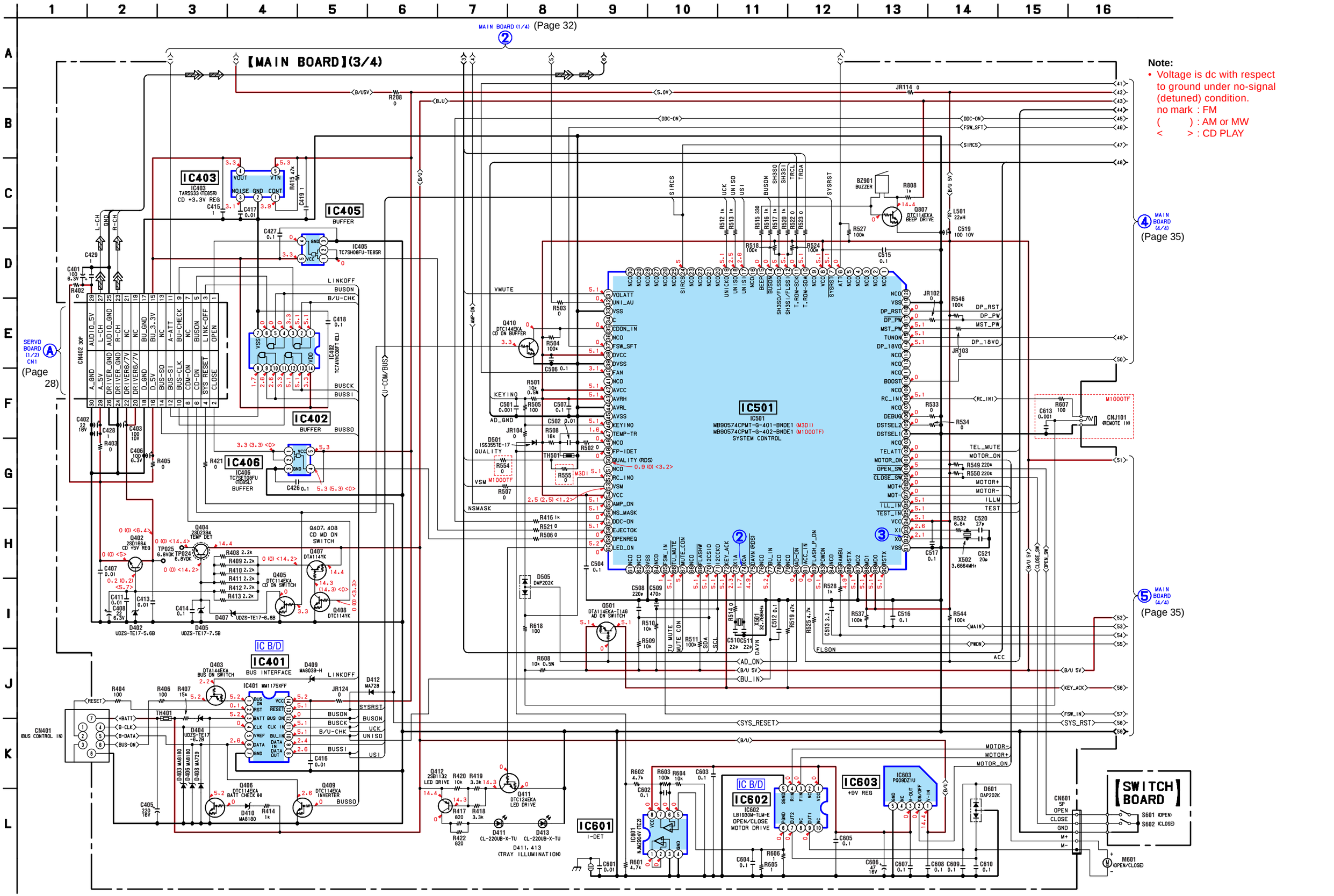
4-13. SCHEMATIC DIAGRAM — MAIN SECTION (2/4) — • Refer to page 25 for Common Note on Schematic Diagram.



Note:

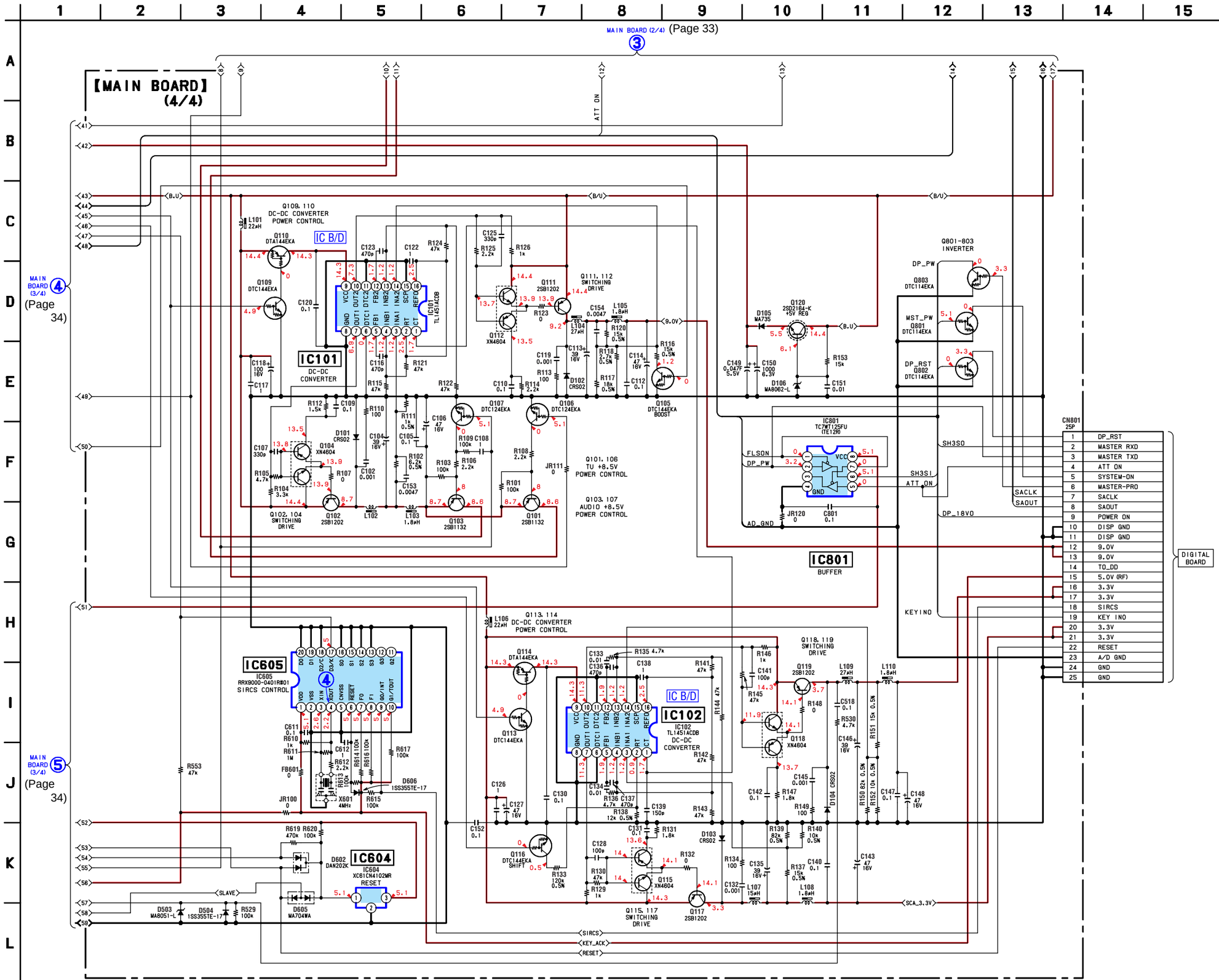
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

4-14. SCHEMATIC DIAGRAM — MAIN SECTION (3/4) — • Refer to page 25 for Waveforms and Common Note on Schematic Diagram, and page 40 for IC Block Diagrams.



Note:
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : AM or MW
  < > : CD PLAY

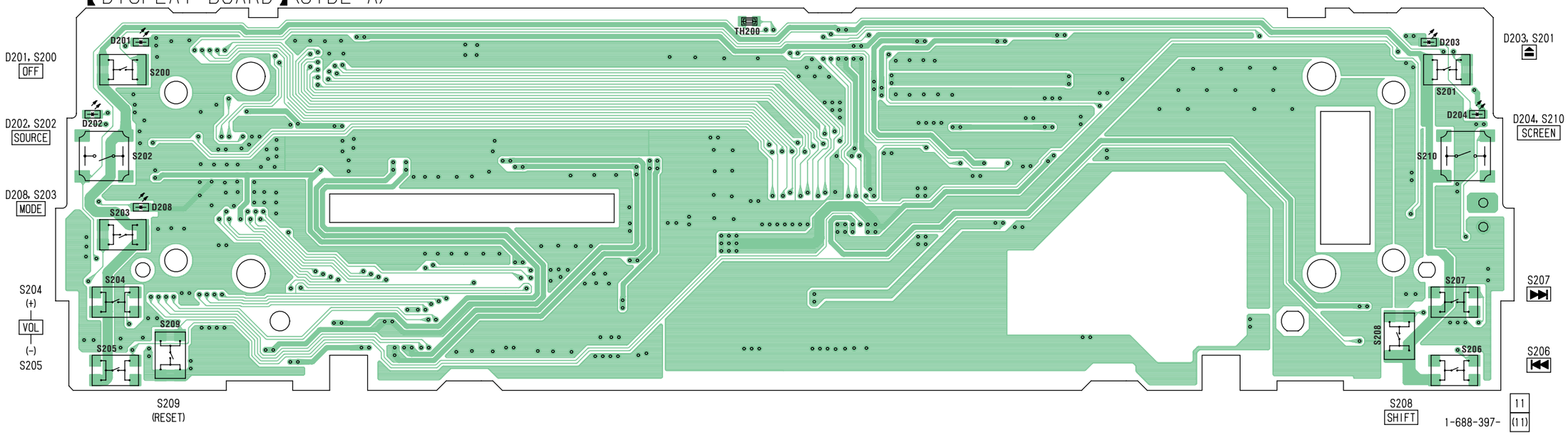
4-15. SCHEMATIC DIAGRAM — MAIN SECTION (4/4) — • Refer to page 25 for Waveforms and Common Note on Schematic Diagram, and page 41 for IC Block Diagrams.



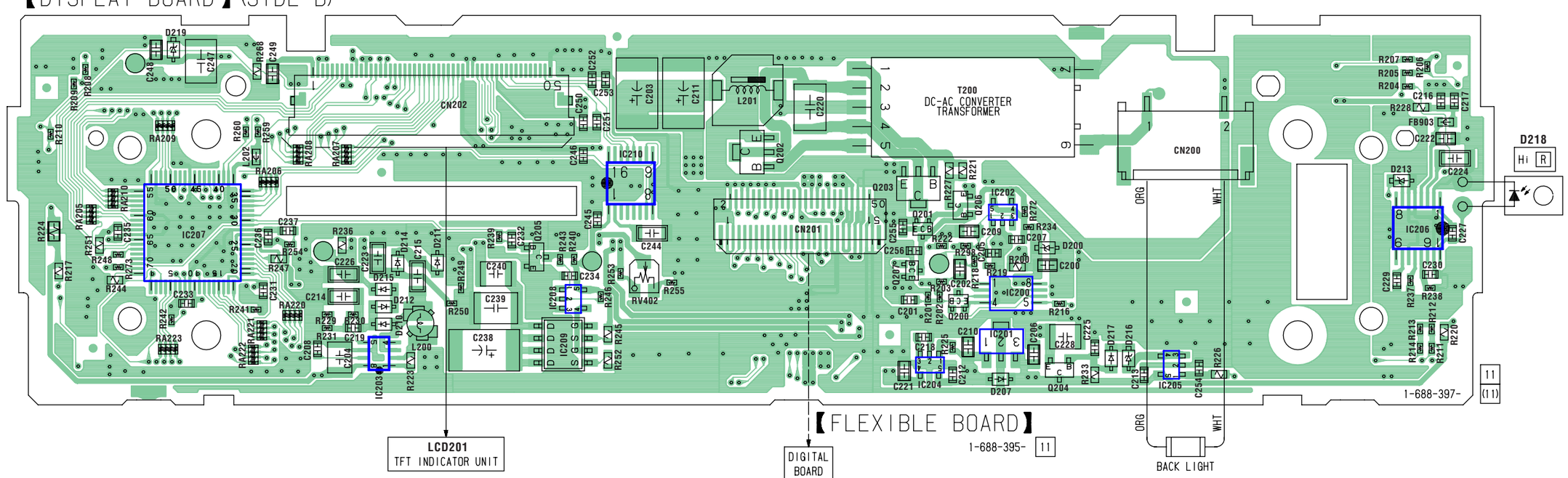
Note:
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

4-16. PRINTED WIRING BOARDS — DISPLAY SECTION — • Refer to page 25 for Common Note on Printed Wiring Boards.

【DISPLAY BOARD】(SIDE A)



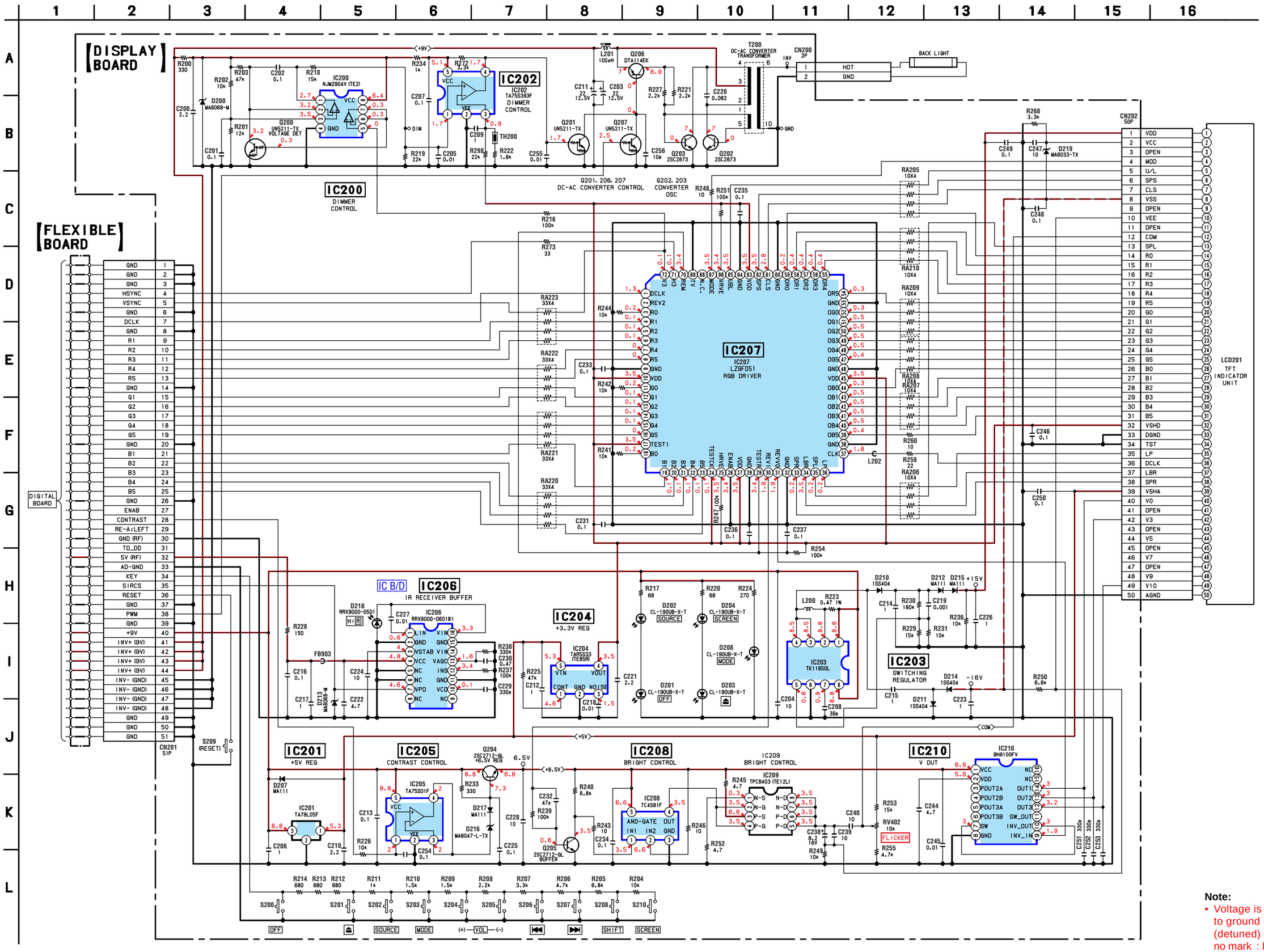
【DISPLAY BOARD】(SIDE B)



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D200	G-10	D211	G-5	D219	F-3	IC206	G-13	Q202	F-7
D201	A-2	D212	H-4			IC207	G-3	Q203	G-9
D202	B-1	D213	G-13	IC200	H-10	IC208	H-6	Q204	H-10
D203	A-13	D214	G-5	IC201	H-10	IC209	H-6	Q205	G-6
D204	B-13	D215	H-4	IC202	G-10	IC210	G-6	Q206	G-9
D207	H-10	D216	H-11	IC203	H-4			Q207	H-9
D208	C-2	D217	H-10	IC204	H-9	Q200	H-9		
D210	H-4	D218	G-14	IC205	H-11	Q201	G-9		

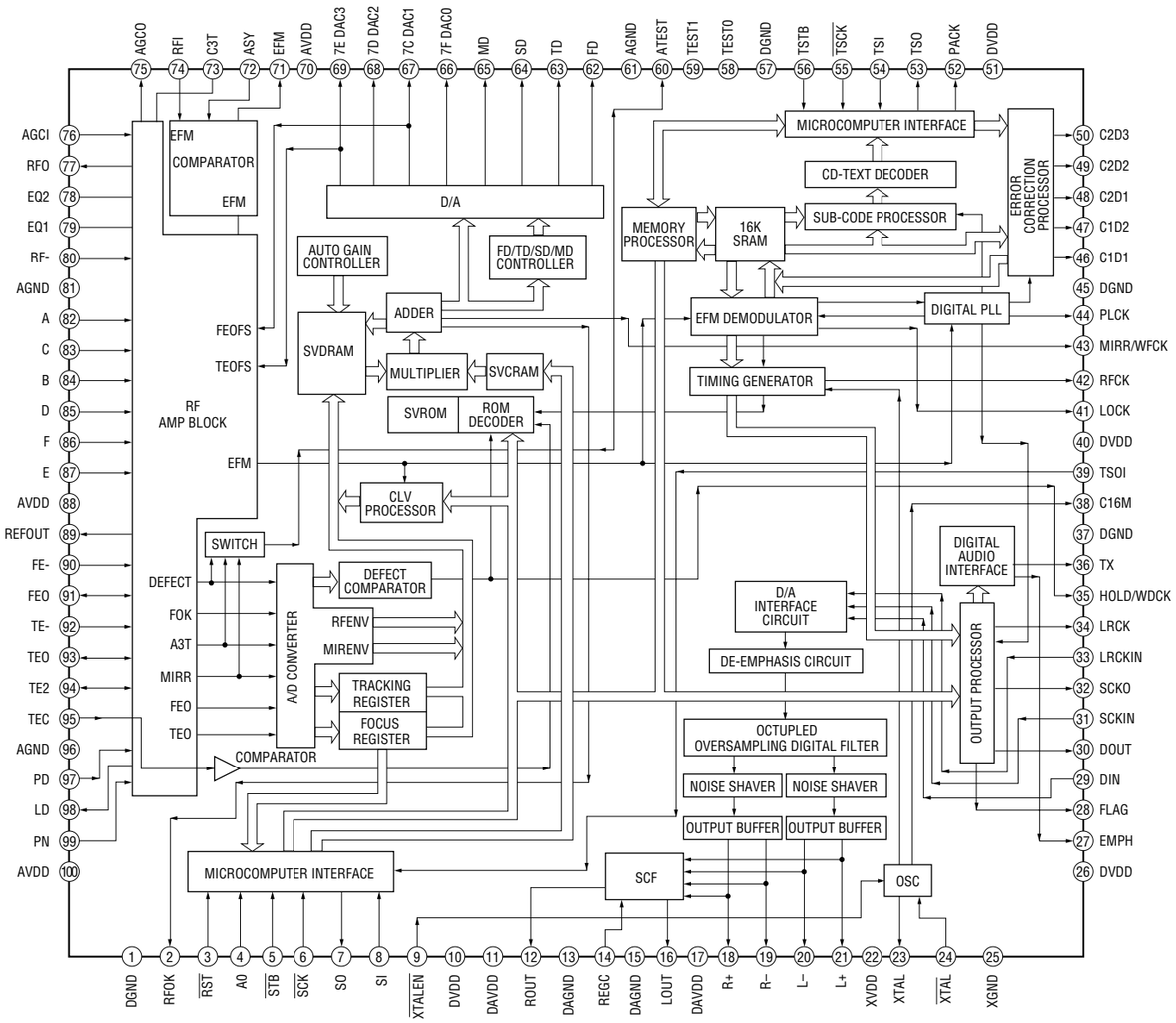
4-17. SCHEMATIC DIAGRAM — DISPLAY SECTION — • Refer to page 25 for Common Note on Schematic Diagram and page 41 for IC Block Diagrams.



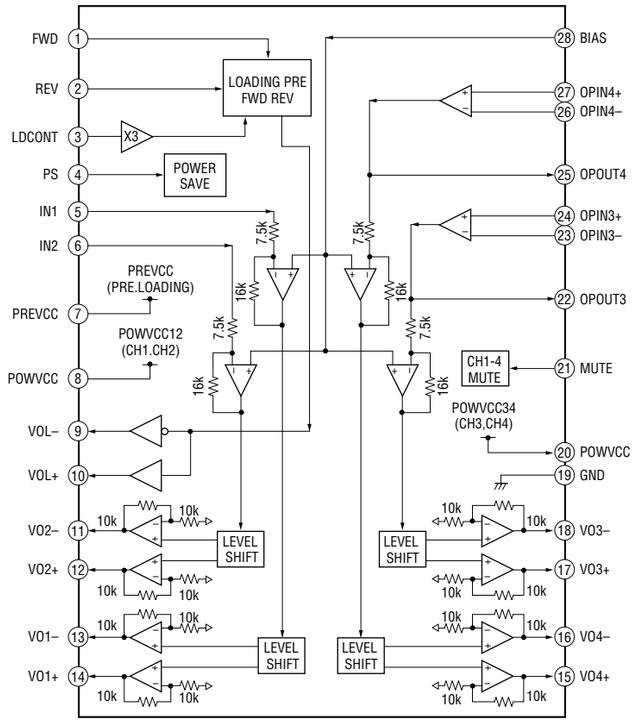
Note:
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

4-18. IC BLOCK DIAGRAMS

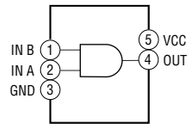
IC1 µPD63711GC-8EU



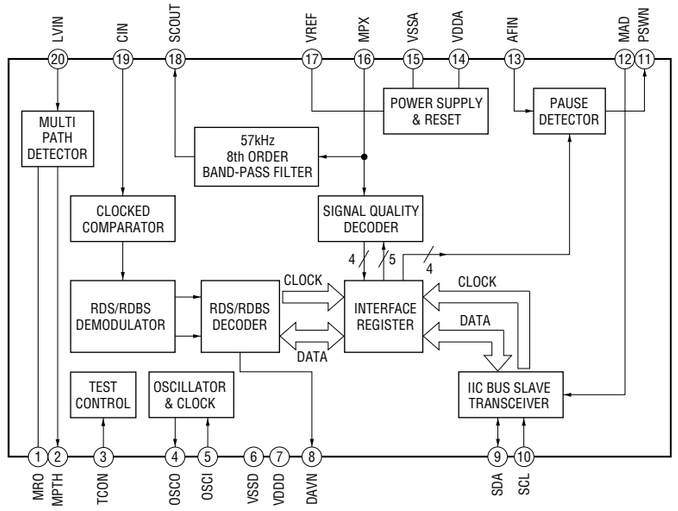
IC2 BA5810FP-E2



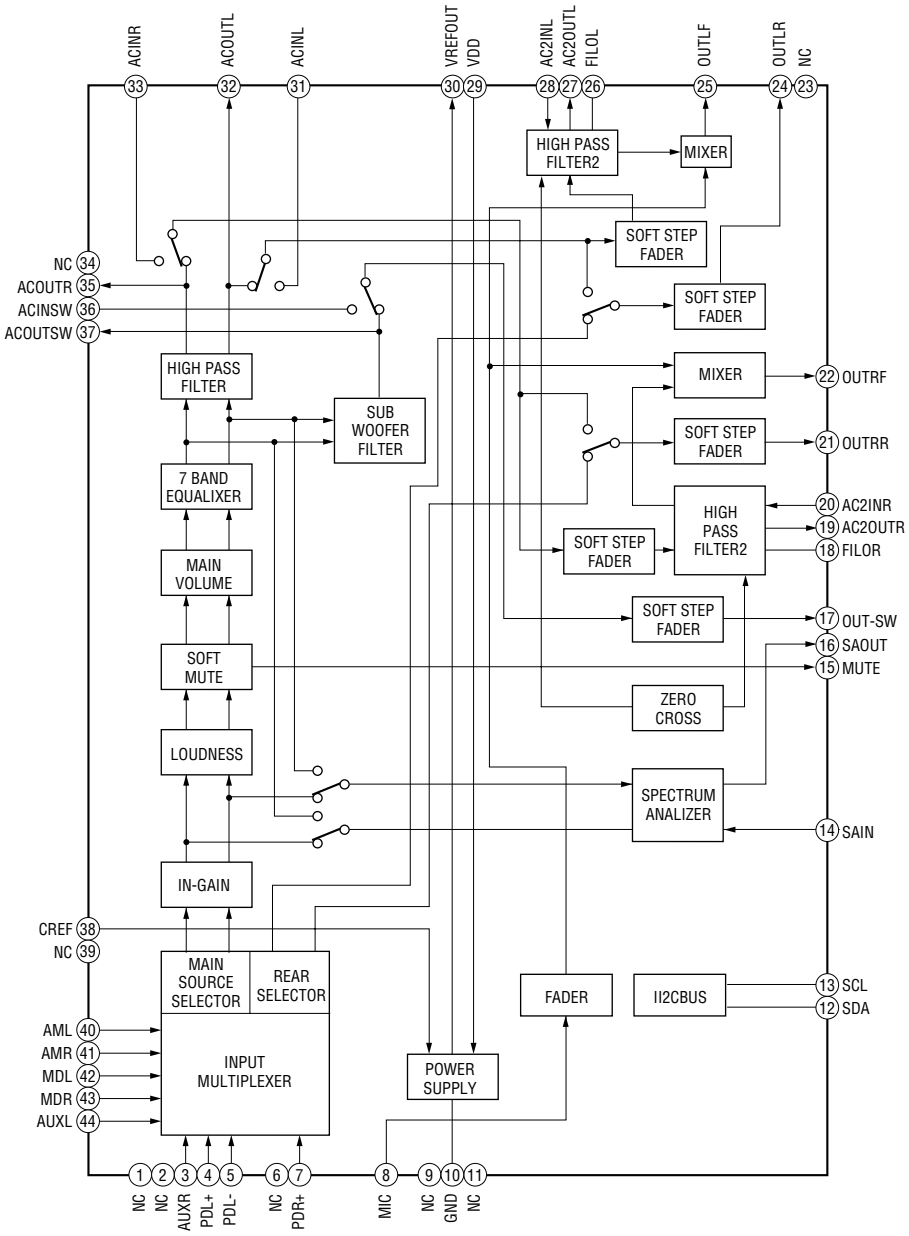
IC12 TC7SH08FU-TE85R



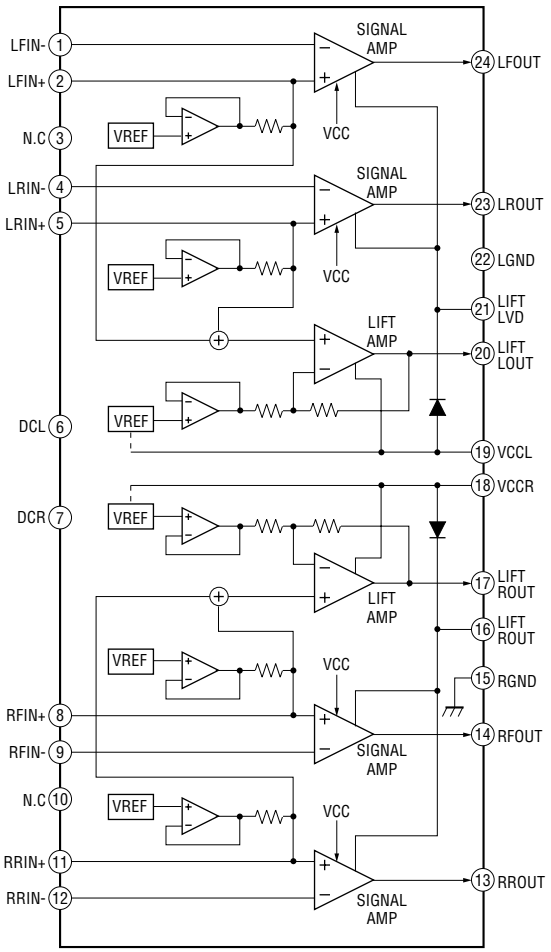
IC201 SAA6588T/V2-518 (CDX-M1000TF only)



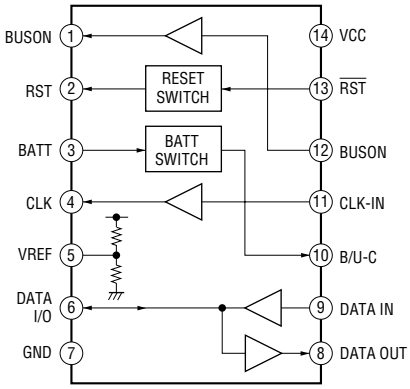
IC400 TDA7416



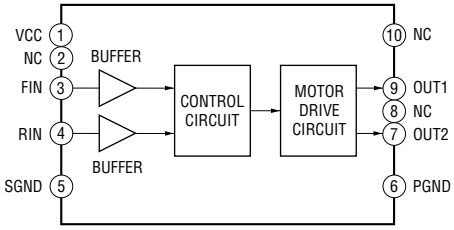
IC404 LA2901V-TLM-E



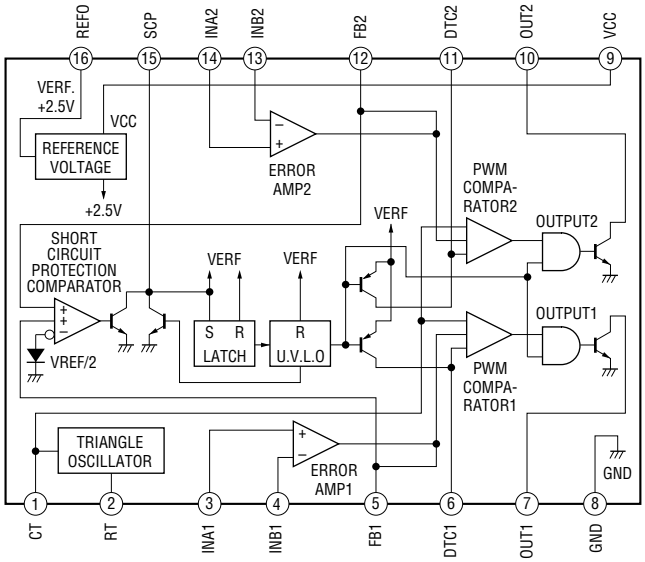
IC401 MM1175XFF



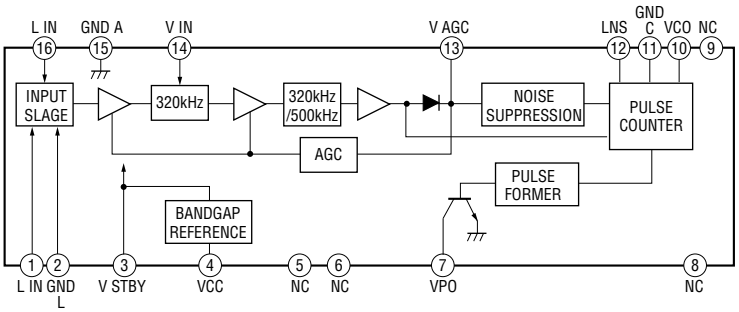
IC602 LB1930M-TLM-E



IC101 TL1451ACDB
IC102 TL1451ACDB



IC206 RRX9000-0601#1



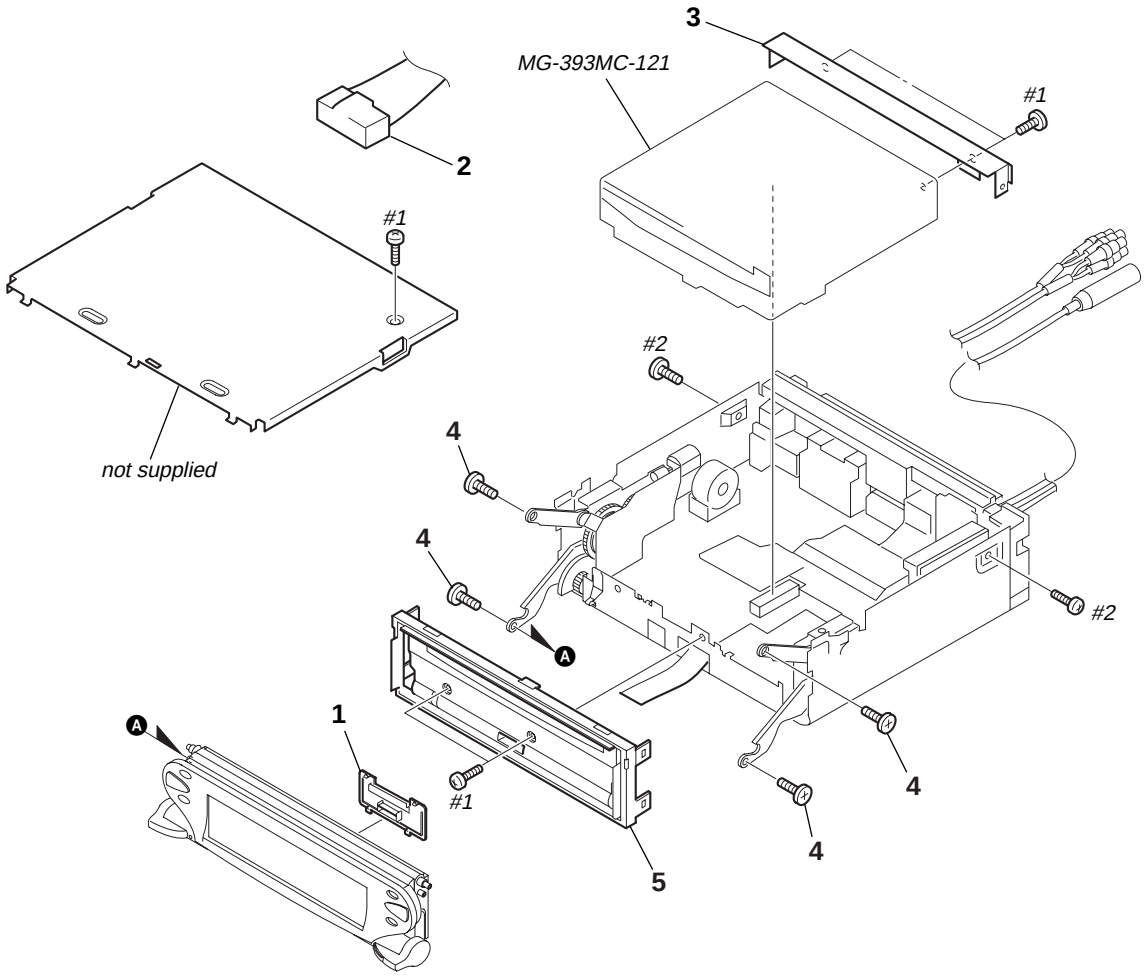
SECTION 5
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Accessories are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

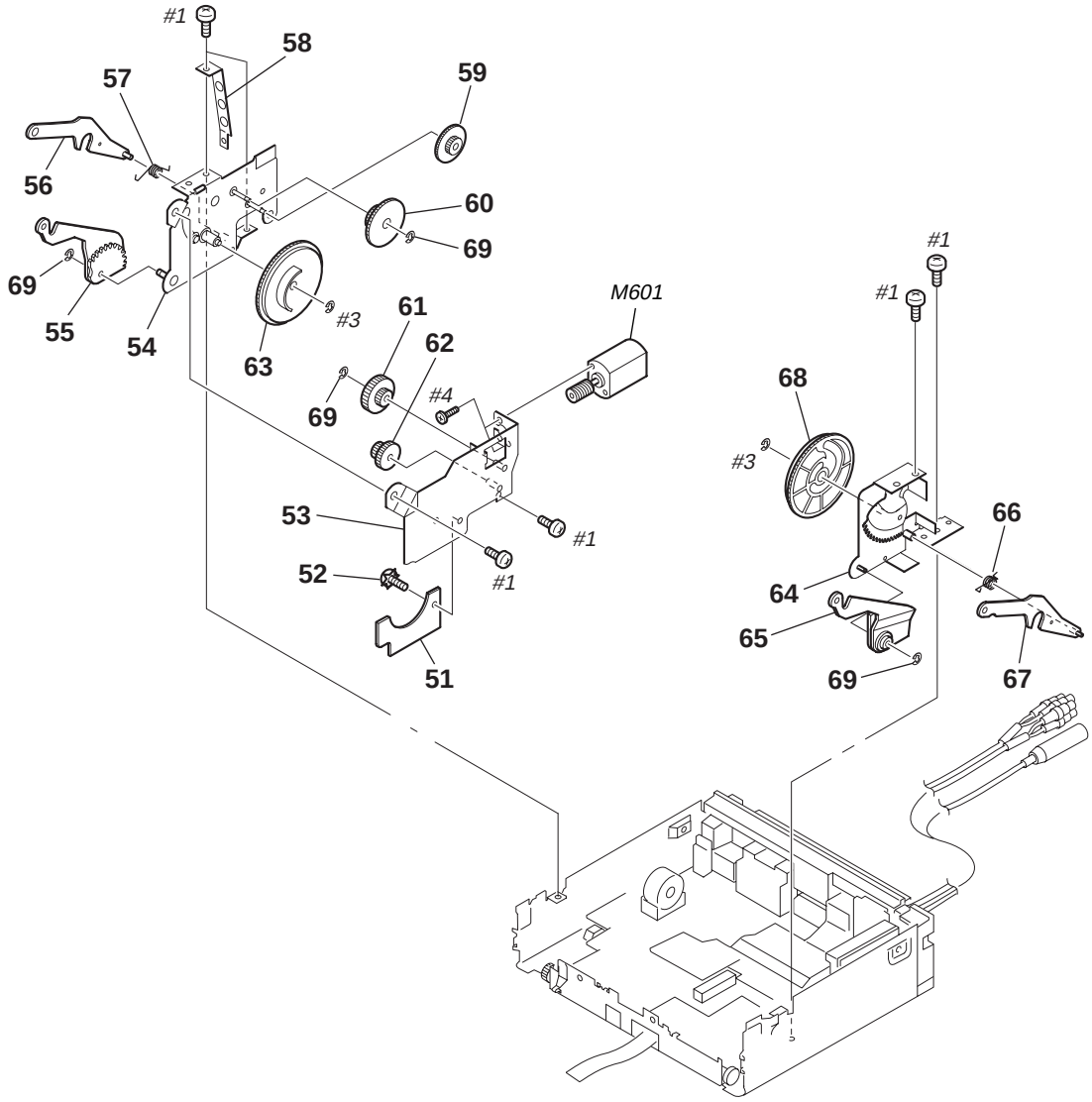
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

5-1. CHASSIS SECTION



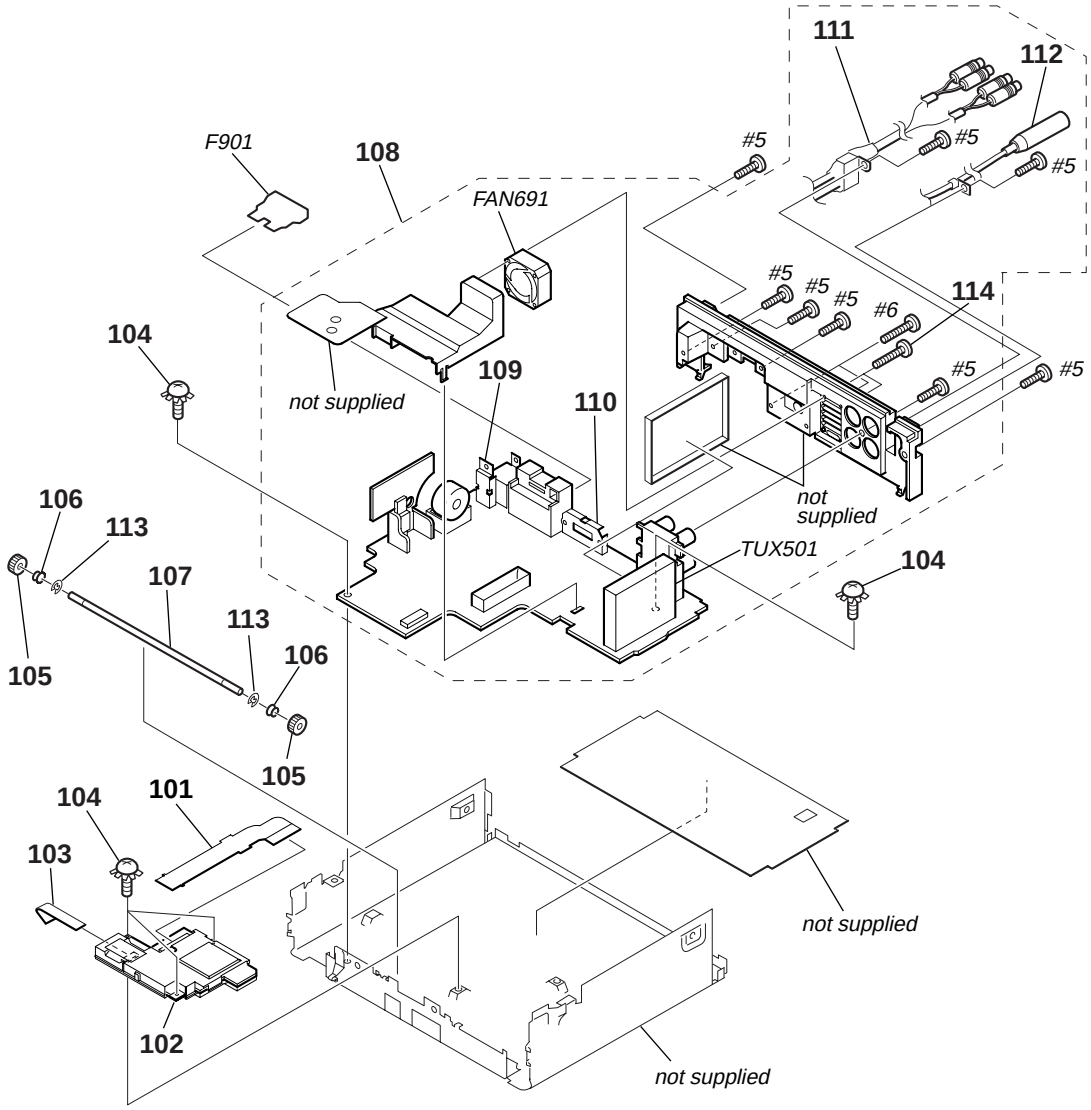
Ref. No.	Part No.	Description	Remark
1	3-241-832-01	COVER (FPC)	
2	1-776-207-72	CORD (WITH CONNECTOR) (POWER) (M3DI)	
2	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER) (M1000TF)	
3	3-248-858-11	BRACKET (CD)	
4	3-242-039-01	SCREW (THIN HEAD M1.4)	
5	X-3383-092-1	PANEL (CD) ASSY, SUB (M3DI)	
5	X-3383-097-1	PANEL (CD) ASSY, SUB (M1000TF)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-790-09	SCREW +PTT 2.6X4 (S)	

5-2. CAM SECTION



Ref. No.	Part No.	Description	Remark
51	A-3340-310-A	SWITCH BOARD, COMPLETE	
52	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
53	X-3381-368-1	BRACKET (SUB L) (RIVETING) ASSY	
54	X-3381-359-1	BRACKET (MAIN L) ASSY	
55	X-3381-599-1	ARM (D.L) ASSY	
56	X-3382-167-1	ARM (U.L.T) ASSY	
57	3-236-964-01	SPRING (ARM L)	
58	3-238-628-01	COVER (PROTECTION)	
59	3-237-004-01	GEAR (B)	
60	3-237-005-01	GEAR (C)	
61	3-236-946-01	GEAR (WORM WHEEL)	
62	3-237-003-01	GEAR (A)	
63	3-236-947-01	GEAR (CAM L)	
64	X-3381-360-2	BRACKET (MAIN R) ASSY	
65	X-3381-600-1	ARM (D.R) ASSY	
66	3-236-965-01	SPRING (ARM R)	
67	X-3382-168-1	ARM (U.R.T) ASSY	
68	3-236-961-01	GEAR (CAM R)	
69	3-243-606-01	RING (PANEL), E	
M601	A-3315-488-A	MOTOR ASSY (OPEN/CLOSE)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#3	7-624-106-04	STOP RING 3.0, TYPE -E	
#4	7-627-553-28	SCREW, PRECISION +P 2X2.5	

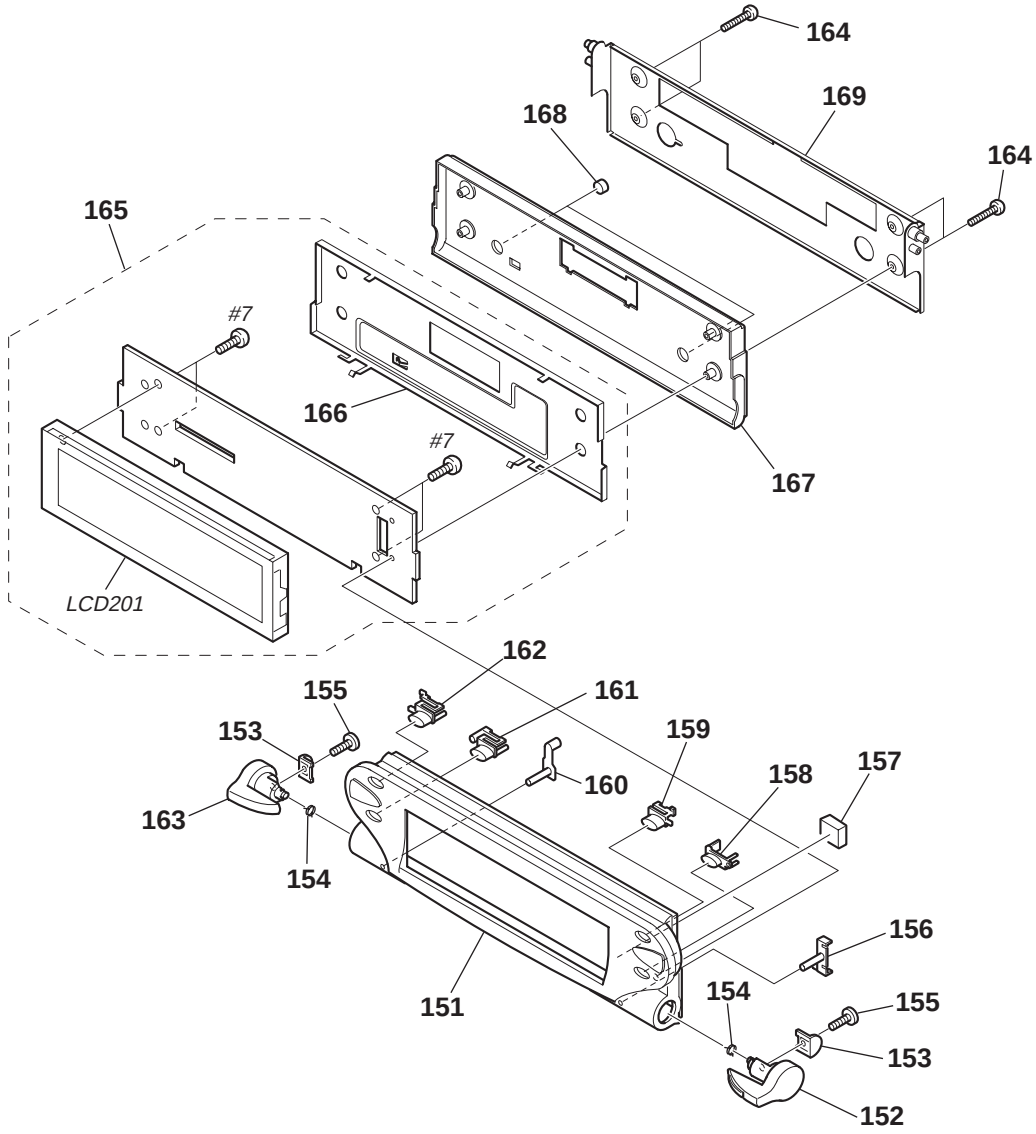
5-3. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark
101	1-688-395-11	FLEXIBLE BOARD	
102	A-3337-599-A	DIGITAL BOARD, COMPLETE	
103	1-827-154-11	CABLE, FLEXIBLE FLAT (25 CORE)	
104	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
105	3-230-493-01	GEAR (DRIVE SHAFT)	
106	3-230-444-01	GUIDE (DRIVE SHAFT)	
107	3-243-674-01	SHAFT, DRIVE	
108	A-3274-820-A	MAIN BOARD, COMPLETE (M1000TF)	
108	A-3337-600-A	MAIN BOARD, COMPLETE (M3DI)	
109	3-041-261-11	BRACKET (TR)	

Ref. No.	Part No.	Description	Remark
* 110	3-019-565-01	BRACKET (IC)	
111	1-827-121-11	CORD, CONNECTION (AUDIO OUT FRONT/REAR)	
112	X-3383-743-1	CORD (ANT) ASSY (ANTENNA)	
113	3-040-692-01	RING, CE TYPE RETAINING	
114	3-564-708-01	SCREW (+P 2X18) (TYPE2)	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
FAN691	1-763-815-11	FAN, DC (25X25)	
TUX501	A-3220-887-A	TUNER UNIT (TUX-030)	
#5	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#6	7-685-795-09	SCREW +PTT 2.6X12 (S)	

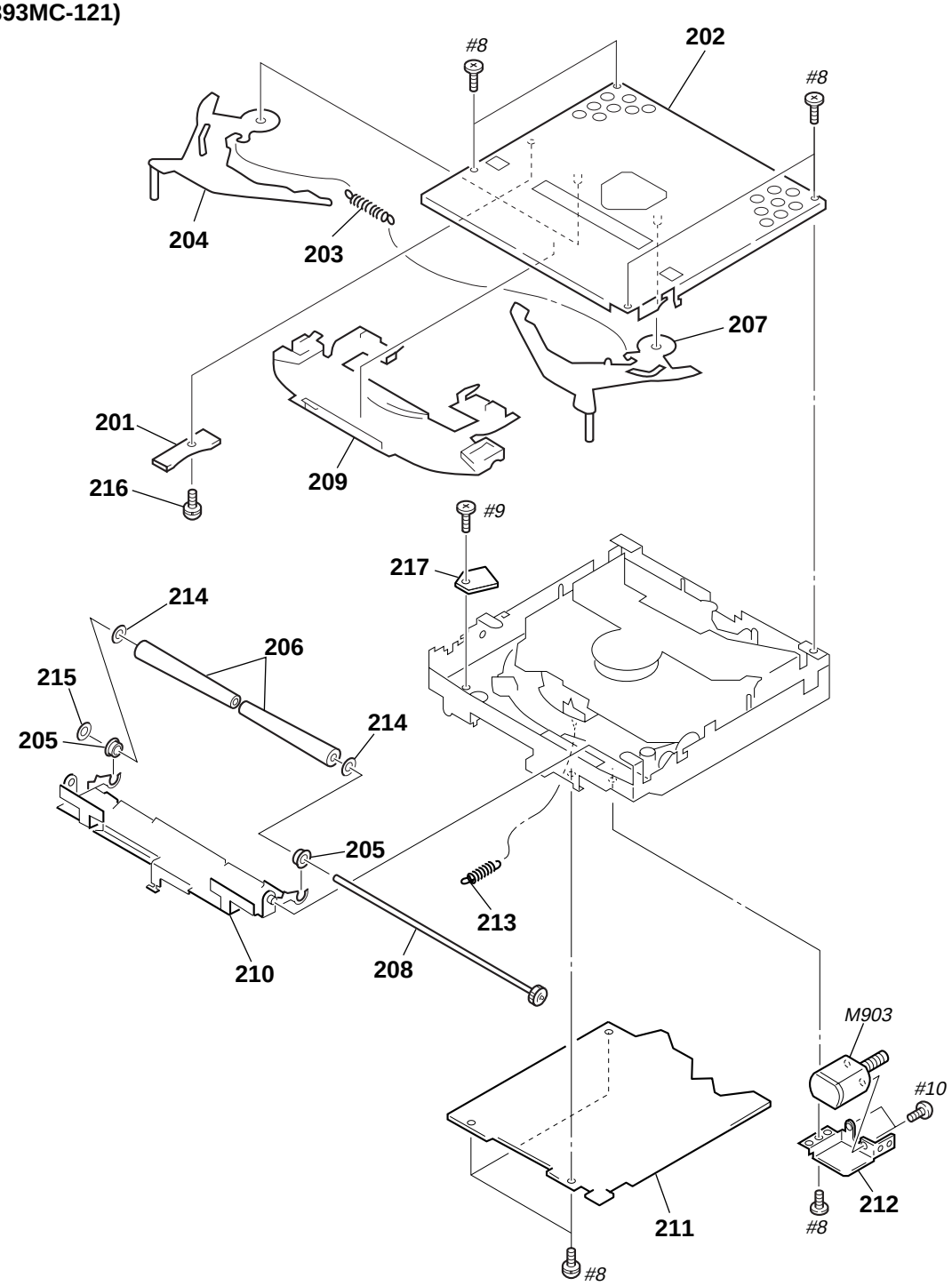
5-4. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
151	A-3337-605-A	PANEL (FRONT) ASSY (M3DI)	
151	A-3337-616-A	PANEL (FRONT) ASSY (M1000TF)	
152	X-3383-785-1	LEVER (AMS.SVX) ASSY	
153	3-241-842-01	CONTACT (TACT)	
154	3-241-850-11	SPRING (LEVER)	
155	3-244-319-01	SCREW (B2), TAPPING	
156	3-241-840-01	RELAY (SHIFT)	
157	3-231-433-01	CUSHION (ELECTROSTATIC)	
158	3-241-847-01	FILTER (IR)	
159	3-241-835-11	BUTTON (OPEN)	
160	3-241-846-01	BUTTON (RESET)	

Ref. No.	Part No.	Description	Remark
161	3-241-845-11	BUTTON (MODE)	
162	3-241-844-11	BUTTON (OFF)	
163	3-241-843-01	LEVER (VOL)	
164	3-564-708-91	SCREW (+P 2X14) (TYPE2)	
165	A-3337-604-A	DISPLAY BOARD, COMPLETE	
166	3-241-870-02	PLATE (PANEL), SHIELD	
167	3-241-834-01	PANEL (FRONT BACK)	
168	3-241-849-11	CUSHION (FB)	
169	X-3383-093-1	PANEL (BASE) ASSY	
LCD201	1-477-252-11	INDICATOR UNIT (TFT)	
#7	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT	

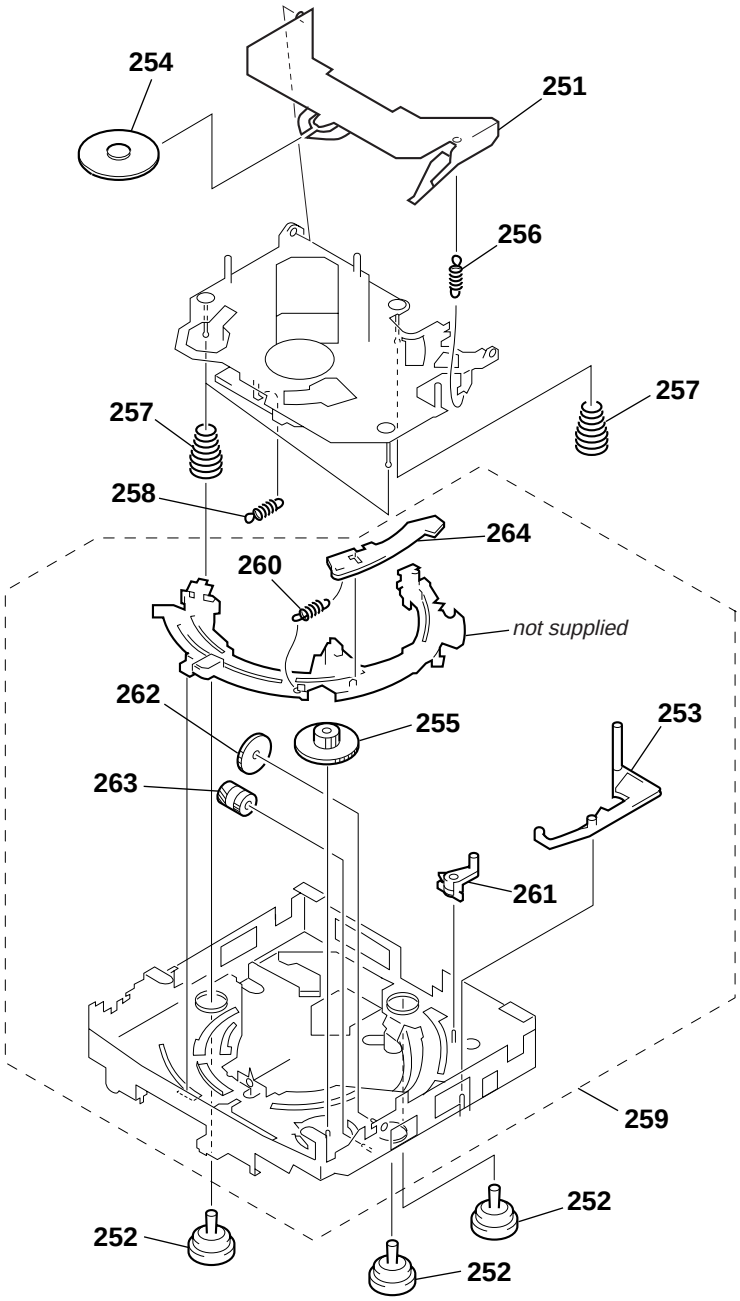
5-5. CD MECHANISM SECTION (1)
(MG-393MC-121)



Ref. No.	Part No.	Description	Remark
201	A-3274-253-A	DISC IN SW BOARD, COMPLETE	
202	3-040-039-03	CHASSIS (T)	
203	3-040-038-01	SPRING (LR), TENSION	
204	3-040-050-01	LEVER (L)	
205	3-040-022-01	RETAINER (ROLLER), SHAFT	
206	3-040-044-01	ROLLER (S)	
207	3-040-067-01	LEVER (R)	
208	A-3301-980-A	SHAFT ROLLER ASSY	
209	3-040-037-01	GUIDE (DISC)	
210	3-040-040-03	ARM (ROLLER)	
211	A-3274-698-A	SERVO BOARD, COMPLETE	

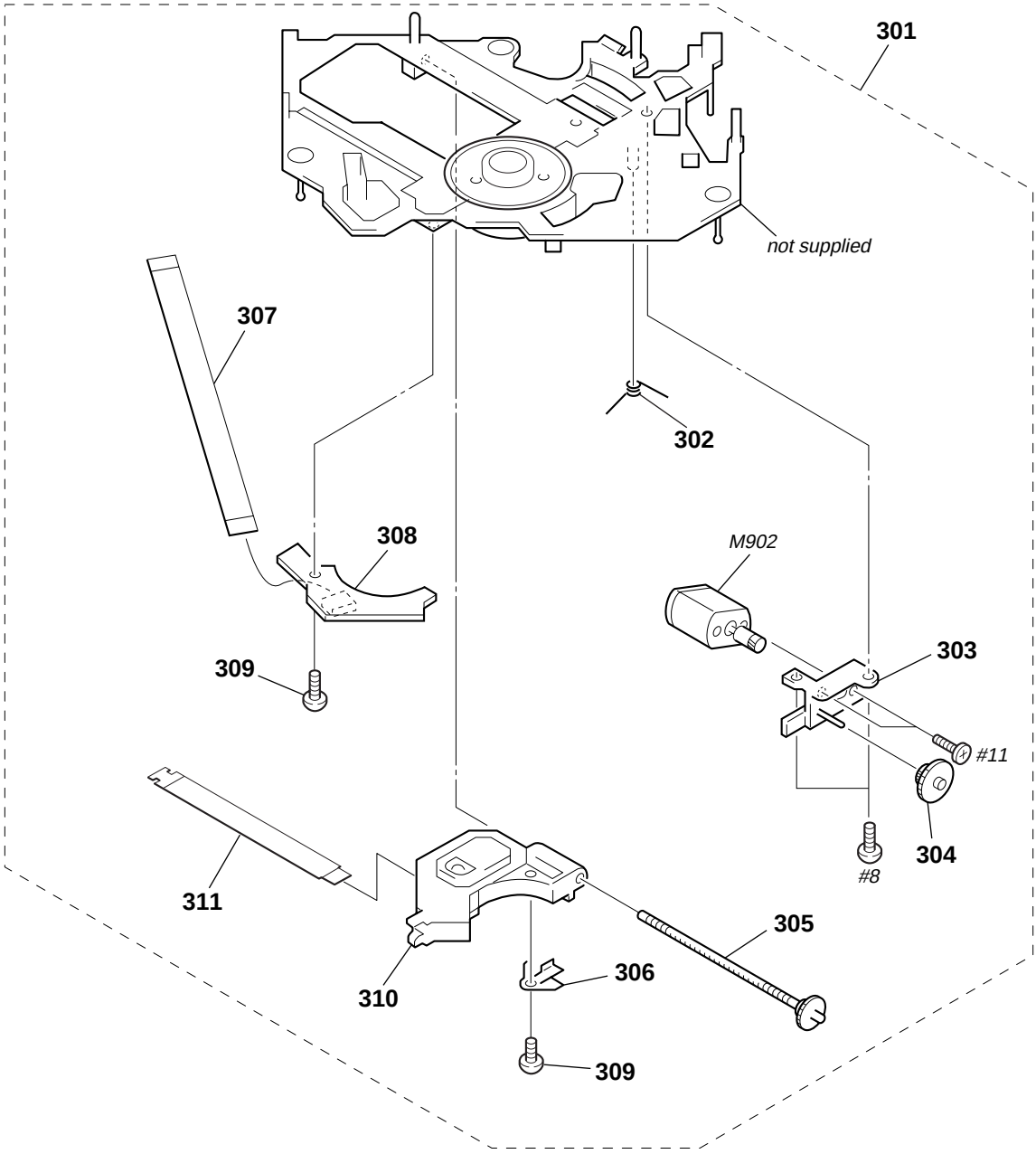
Ref. No.	Part No.	Description	Remark
212	3-221-779-02	BRACKET (MOTOR)	
213	3-040-034-01	SPRING (RA), TENSION	
214	3-040-042-01	WASHER	
215	3-043-880-01	RING (RA), RETAINING	
216	3-044-206-11	SCREW, SPECIAL	
217	1-685-337-11	LOAD SW BOARD	
M903	A-3315-039-A	MOTOR SUB ASSY, LO (LOADING)	
#8	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE3	
#9	7-628-253-00	SCREW, SPECIAL	
#10	7-627-553-17	SCREW, PRECISION +P 2X2 TYPE3	

5-6. CD MECHANISM SECTION (2)
(MG-393MC-121)



Ref. No.	Part No.	Description	Remark
251	3-040-025-02	ARM, CHUCKING	
252	3-040-031-01	DAMPER (T)	
253	3-040-056-01	LEVER (D)	
254	3-040-024-01	RETAINER (DISC)	
255	3-040-054-01	WHEEL (LW), WORM	
256	3-040-026-01	SPRING (CH), TENSION	
257	3-040-032-01	SPRING (FL), COMPRESSION	
258	3-040-033-01	SPRING (KF1), TENSION	
259	A-3307-422-A	CHASSIS (M) COMPLETE ASSY	
260	3-040-059-01	SPRING (TR), TENSION	
261	3-040-057-01	LEVER (LOCK)	
262	3-040-058-01	GEAR (MDL)	
263	3-040-052-01	WHEEL (U), WORM	
264	3-040-051-02	LEVER (TR)	

5-7. CD MECHANISM SECTION (3)
(MG-393MC-121)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
301	A-3337-193-A	FLOATING BLOCK ASSY (including M901)	
302	3-040-029-01	SPRING (SL), TORSION	
303	3-040-045-01	BASE (DRIVING)	
304	3-040-194-01	GEAR (MIDWAY)	
305	A-3301-983-A	SHAFT (FEED) ASSY	
306	3-040-030-01	SPRING (FEED), PLATE	
307	1-823-951-11	CABLE, FLEXIBLE FLAT (16 CORE)	
308	A-3274-254-A	LIMIT SW BOARD, COMPLETE	
309	3-909-607-01	SCREW	
⚠310	8-820-165-06	OPTICAL PICK-UP KSS-721A/C-RP	
311	1-676-707-11	PICK-UP FLEXIBLE BOARD	
M902	A-3301-985-A	MOTOR ASSY, SLED (SLED)	
#8	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE3	
#11	7-627-850-28	SCREW, PRECISION +P 1.4X3	

SECTION 6
ELECTRICAL PARTS LIST

DIGITAL **DISC IN SW** **DISPLAY**

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-3337-599-A	DIGITAL BOARD, COMPLETE (When repairing, the complete DIGITAL board should be replaced since any parts in the DIGITAL board cannot be repaired.)			
		**********			
**********					
	A-3274-253-A	DISC IN SW BOARD, COMPLETE			
		**********			
**********					
	A-3337-604-A	DISPLAY BOARD, COMPLETE			
		**********			
	3-241-870-02	PLATE (PANEL), SHIELD			
	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT			
		< CAPACITOR >			
C200	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C201	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C202	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C203	1-131-618-21	ELECT CHIP	22uF	20%	12.5V
C204	1-127-692-11	CERAMIC CHIP	10uF	10%	16V
C205	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C206	1-164-346-11	CERAMIC CHIP	1uF		16V
C207	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C208	1-162-922-11	CERAMIC CHIP	39PF	5%	50V
C209	1-164-346-11	CERAMIC CHIP	1uF		16V
C210	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C211	1-131-618-21	ELECT CHIP	22uF	20%	12.5V
C212	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C213	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C214	1-137-988-11	CERAMIC CHIP	1uF	10%	35V
C215	1-137-988-11	CERAMIC CHIP	1uF	10%	35V
C216	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C217	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C218	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C219	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C220	1-100-009-11	FILM CHIP	0.082uF	5%	50V
C221	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C222	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C223	1-137-988-11	CERAMIC CHIP	1uF	10%	35V
C224	1-127-692-11	CERAMIC CHIP	10uF	10%	6.3V
C225	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C226	1-137-988-11	CERAMIC CHIP	1uF	10%	35V
C227	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C228	1-127-692-11	CERAMIC CHIP	10uF	10%	16V
C229	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C230	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C231	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C232	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C233	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C234	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C235	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C236	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C237	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C238	1-165-955-21	ELECT CHIP	8.2uF	20%	16V
C239	1-135-405-11	CERAMIC CHIP	10uF	10%	25V
C240	1-127-692-11	CERAMIC CHIP	10uF	10%	16V
C244	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C245	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C246	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C247	1-135-405-11	CERAMIC CHIP	10uF	10%	25V
C248	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C249	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C250	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C251	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C252	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C253	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C254	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C255	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C256	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
		< CONNECTOR >			
* CN200	1-766-311-21	PIN, CONNECTOR (PC BOARD) 2P			
CN201	1-816-467-11	CONNECTOR, FPC (ZIF) 51P			
CN202	1-816-485-21	CONNECTOR, FFC/FPC (ZIF) 50P			
		< DIODE >			
D200	8-719-977-12	DIODE DTZ6.8B			
D201	8-719-080-04	LED CL-190UB-X-T (OFF)			
D202	8-719-080-04	LED CL-190UB-X-T (SOURCE)			
D203	8-719-080-04	LED CL-190UB-X-T (⏏)			
D204	8-719-080-04	LED CL-190UB-X-T (SCREEN)			
D207	8-719-404-50	DIODE MA111-TX			
D208	8-719-080-04	LED CL-190UB-X-T (MODE)			
D210	6-500-219-01	DIODE 1SS404(TPH3)			
D211	6-500-219-01	DIODE 1SS404(TPH3)			
D212	8-719-404-50	DIODE MA111-TX			
D213	8-719-977-12	DIODE DTZ6.8B			

DISPLAY

Ref. No.	Part No.	Description	Remark
D214	6-500-219-01	DIODE 1SS404(TPH3)	
D215	8-719-404-50	DIODE MA111-TX	
D216	8-719-422-29	DIODE MA8047-L-TX	
D217	8-719-404-50	DIODE MA111-TX	
D218	8-719-083-14	PHOTO SENSOR RRX9000-0501 (Hi R)	
D219	8-719-017-79	DIODE MA8033	
		< FERRITE BEAD >	
FB903	1-500-329-21	INDUCTOR, FERRITE BEAD	
		< IC >	
IC200	8-759-337-40	IC NJM2904V(TE2)	
IC201	8-759-234-08	IC TA78L05F	
IC202	8-759-075-70	IC TA75S393F	
IC203	6-702-207-01	IC TK11850L	
IC204	8-759-695-94	IC TAR5S33(TE85R)	
IC205	8-759-075-66	IC TA75S01F	
IC206	8-759-830-18	IC RRX9000-0601#1	
IC207	6-702-206-01	IC LZ9FD51	
IC208	8-759-209-97	IC TC4S81F	
IC210	6-702-208-01	IC BH8100FV	
		< TRANSISTOR >	
IC209	6-550-169-01	FET TPC8403(TE12L)	
		< COIL >	
L200	1-428-971-11	COIL (88FU-471M)	
L201	1-406-580-11	COIL, CHOKE 100uH	
L202	1-500-284-21	INDUCTOR, FERRITE BEAD	
		< INDICATOR UNIT >	
LCD201	1-477-252-11	INDICATOR UNIT (TFT)	
		< TRANSISTOR >	
Q200	8-729-015-76	TRANSISTOR UN5211	
Q201	8-729-015-76	TRANSISTOR UN5211	
Q202	8-729-807-51	TRANSISTOR 2SD1623-S	
Q203	8-729-807-51	TRANSISTOR 2SD1623-S	
Q204	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q205	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q206	8-729-901-04	TRANSISTOR DTA114EK	
Q207	8-729-015-76	TRANSISTOR UN5211	
		< RESISTOR >	

Ref. No.	Part No.	Description			Remark
R200	1-216-815-11	METAL CHIP	330	5%	1/10W
R201	1-218-966-11	RES-CHIP	12K	5%	1/16W
R202	1-218-965-11	RES-CHIP	10K	5%	1/16W
R203	1-218-973-11	RES-CHIP	47K	5%	1/16W
R204	1-218-965-11	RES-CHIP	10K	5%	1/16W
R205	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R206	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R207	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R208	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R209	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
R210	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
R211	1-218-953-11	RES-CHIP	1K	5%	1/16W
R212	1-218-951-11	RES-CHIP	680	5%	1/16W
R213	1-218-951-11	RES-CHIP	680	5%	1/16W
R214	1-218-951-11	RES-CHIP	680	5%	1/16W
R216	1-218-977-11	RES-CHIP	100K	5%	1/16W
R217	1-216-807-11	METAL CHIP	68	5%	1/10W
R218	1-218-967-11	RES-CHIP	15K	5%	1/16W
R219	1-218-969-11	RES-CHIP	22K	5%	1/16W
R220	1-216-807-11	METAL CHIP	68	5%	1/10W
R221	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R222	1-218-956-11	RES-CHIP	1.8K	5%	1/16W
R223	1-243-640-11	RES-CHIP	0.47	1%	1/8W
R224	1-216-035-00	METAL CHIP	270	5%	1/10W
R225	1-218-973-11	RES-CHIP	47K	5%	1/16W
R226	1-216-833-11	METAL CHIP	10K	5%	1/10W
R227	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R228	1-216-811-11	METAL CHIP	150	5%	1/10W
R229	1-218-967-11	RES-CHIP	15K	5%	1/16W
R230	1-218-980-11	RES-CHIP	180K	5%	1/16W
R231	1-218-965-11	RES-CHIP	10K	5%	1/16W
R233	1-216-815-11	METAL CHIP	330	5%	1/10W
R234	1-218-953-11	RES-CHIP	1K	5%	1/16W
R236	1-216-833-11	METAL CHIP	10K	5%	1/10W
R237	1-218-977-11	RES-CHIP	100K	5%	1/16W
R238	1-218-983-11	RES-CHIP	330K	5%	1/16W
R239	1-218-977-11	RES-CHIP	100K	5%	1/16W
R240	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R241	1-218-965-11	RES-CHIP	10K	5%	1/16W
R242	1-218-965-11	RES-CHIP	10K	5%	1/16W
R243	1-208-635-11	RES-CHIP	10	5%	1/16W
R244	1-216-833-11	METAL CHIP	10K	5%	1/10W
R245	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R246	1-208-635-11	RES-CHIP	10	5%	1/16W
R247	1-216-845-11	METAL CHIP	100K	5%	1/10W
R248	1-208-635-11	RES-CHIP	10	5%	1/16W
R249	1-218-965-11	RES-CHIP	10K	5%	1/16W
R250	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R251	1-216-845-11	METAL CHIP	100K	5%	1/10W
R252	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R253	1-218-967-11	RES-CHIP	15K	5%	1/16W
R254	1-218-977-11	RES-CHIP	100K	5%	1/16W
R255	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R259	1-218-933-11	RES-CHIP	22	5%	1/16W
R260	1-208-635-11	RES-CHIP	10	5%	1/16W
R268	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R272	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R273	1-218-935-11	RES-CHIP	33	5%	1/16W
R298	1-218-969-11	RES-CHIP	22K	5%	1/16W
		< NETWORK RESISTOR >			
RA205	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA206	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA207	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA208	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA209	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA210	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA220	1-242-963-21	RES, NETWORK 33X4 (1005)			
RA221	1-242-963-21	RES, NETWORK 33X4 (1005)			
RA222	1-242-963-21	RES, NETWORK 33X4 (1005)			
RA223	1-242-963-21	RES, NETWORK 33X4 (1005)			

DISPLAY | **LIMIT SW** | **LOAD SW** | **MAIN**

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV402	1-238-090-11	RES, ADJ, CERMET 10K	
		< SWITCH >	
S200	1-771-884-31	SWITCH, TACTILE (WITH LED) (OFF)	
S201	1-771-884-31	SWITCH, TACTILE (WITH LED) (⏏)	
S202	1-771-027-21	SWITCH, KEYBOARD (LED NON) (SOURCE)	
S203	1-771-884-31	SWITCH, TACTILE (WITH LED) (MODE)	
S204	1-786-355-21	SWITCH, TACTILE (WITH LED) (VOL +)	
S205	1-786-355-21	SWITCH, TACTILE (WITH LED) (VOL –)	
S206	1-786-355-21	SWITCH, TACTILE (WITH LED) (⏮)	
S207	1-786-355-21	SWITCH, TACTILE (WITH LED) (⏭)	
S208	1-771-884-31	SWITCH, TACTILE (WITH LED) (SHIFT)	
S209	1-771-884-31	SWITCH, TACTILE (WITH LED) (RESET)	
S210	1-771-027-21	SWITCH, KEYBOARD (LED NON) (SCREEN)	
		< TRANSFORMER >	
T200	1-437-741-11	TRANSFORMER, DC-AC CONVERTER	
		< THERMISTOR >	
TH200	1-810-812-21	THERMISTOR, NTC (1608)	
**********			
	A-3274-254-A	LIMIT SW BOARD, COMPLETE	
		**********	
		< CONNECTOR >	
CN13	1-816-275-21	CONNECTOR, FFC/FPC 6P	
**********			
	1-685-337-11	LOAD SW BOARD	
		**********	
**********			
	A-3274-820-A	MAIN BOARD, COMPLETE (M1000TF)	
	A-3337-600-A	MAIN BOARD, COMPLETE (M3DI)	
		**********	
	X-3383-743-1	CORD (ANT) ASSY (ANTENNA)	
	1-694-592-31	TERMINAL	
	1-827-121-11	CORD, CONNECTION (AUDIO OUT FRONT/REAR)	
*	3-019-565-01	BRACKET (IC)	
	3-041-261-11	BRACKET (TR)	
	3-564-708-01	SCREW (+P 2X18) (TYPE2)	
	7-685-790-09	SCREW +PTT 2.6X4 (S)	
	7-685-792-09	SCREW +PTT 2.6X6 (S)	
	7-685-793-09	SCREW +PTT 2.6X8 (S)	
	7-685-795-09	SCREW +PTT 2.6X12 (S)	
		< BUZZER >	
BZ901	1-544-886-11	BUZZER	
		< CAPACITOR >	

Ref. No.	Part No.	Description			Remark
C102	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C104	1-135-346-21	ELECT CHIP	39uF	20%	16V
C105	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C106	1-137-765-21	ELECT CHIP	47uF	20%	16V
C107	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C108	1-115-156-11	CERAMIC CHIP	1uF		10V
C109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C110	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C112	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C113	1-135-346-21	ELECT CHIP	39uF	20%	16V
C114	1-137-765-21	ELECT CHIP	47uF	20%	16V
C116	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C117	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C118	1-117-681-11	ELECT CHIP	100uF	20%	16V
C119	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C120	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C122	1-115-156-11	CERAMIC CHIP	1uF		10V
C123	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C125	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C126	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C127	1-104-607-11	ELECT CHIP	47uF	20%	16V
C128	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C130	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C131	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C132	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C133	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C134	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C135	1-135-346-21	ELECT CHIP	39uF	20%	16V
C136	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C137	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C138	1-115-156-11	CERAMIC CHIP	1uF		10V
C139	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C140	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C141	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C142	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C143	1-137-765-21	ELECT CHIP	47uF	20%	16V
C145	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C146	1-135-346-21	ELECT CHIP	39uF	20%	16V
C147	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C148	1-137-765-21	ELECT CHIP	47uF	20%	16V
C149	1-125-701-11	DOUBLE LAYERS	0.047F		5.5V
C150	1-126-916-11	ELECT	1000uF	20%	6.3V
C151	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C152	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C153	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C154	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C172	1-104-951-11	ELECT	10uF	20%	16V
C182	1-124-233-11	ELECT	10uF	20%	16V
C201	1-124-589-11	ELECT	47uF	20%	16V (M1000TF)
C202	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (M1000TF)
C203	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (M1000TF)
C204	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (M1000TF)
C206	1-124-259-11	ELECT	4.7uF	20%	16V (M1000TF)
C207	1-162-924-11	CERAMIC CHIP	56PF	5%	50V (M1000TF)
C208	1-162-959-11	CERAMIC CHIP	330PF	5%	50V (M1000TF)
C209	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V

MAIN

Ref. No.	Part No.	Description			Remark
C210	1-162-924-11	CERAMIC CHIP	56PF	5%	50V (M1000TF)
C211	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V (M1000TF)
C212	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C213	1-124-233-11	ELECT	10uF	20%	16V
C214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C215	1-164-739-11	CERAMIC CHIP	560PF	5%	50V (M1000TF)
C218	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C221	1-124-233-11	ELECT	10uF	20%	16V
C225	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C231	1-126-160-11	ELECT	1uF	20%	50V
C232	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C233	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C272	1-104-951-11	ELECT	10uF	20%	16V
C282	1-104-951-11	ELECT	10uF	20%	16V
C301	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C302	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C303	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C304	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C305	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C306	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C307	1-136-154-00	FILM	0.012uF	5%	50V
C308	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C309	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C310	1-126-160-11	ELECT	1uF	20%	50V
C311	1-126-160-11	ELECT	1uF	20%	50V
C312	1-126-160-11	ELECT	1uF	20%	50V
C313	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C314	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C315	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C316	1-104-946-11	ELECT	10uF	20%	50V
C317	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C318	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C319	1-104-942-11	ELECT	1uF	20%	50V
C320	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C321	1-104-942-11	ELECT	1uF	20%	50V
C322	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C324	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C326	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C327	1-124-584-00	ELECT	100uF	20%	10V
C328	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C329	1-136-154-00	FILM	0.012uF	5%	50V
C332	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C333	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C335	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C336	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C337	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C339	1-128-428-11	ELECT	10uF	20%	35V
C340	1-128-428-11	ELECT	10uF	20%	35V
C341	1-128-428-11	ELECT	10uF	20%	35V
C342	1-128-428-11	ELECT	10uF	20%	35V
C343	1-124-233-11	ELECT	10uF	20%	16V
C344	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C345	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C346	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C347	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

Ref. No.	Part No.	Description			Remark
C348	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C349	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C350	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C351	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C352	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C353	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C354	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C355	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C357	1-104-951-11	ELECT	10uF	20%	16V
C358	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C359	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C400	1-128-421-11	ELECT	47uF	20%	16V
C401	1-165-979-21	ELECT CHIP	100uF	20%	6.3V
C402	1-124-234-00	ELECT	22uF	20%	16V
C403	1-128-995-21	ELECT CHIP	100uF	20%	10V
C405	1-104-653-11	ELECT	220uF	20%	16V
C406	1-165-979-21	ELECT CHIP	100uF	20%	6.3V
C407	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C408	1-126-153-11	ELECT	22uF	20%	6.3V
C411	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C414	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C415	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C416	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C417	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C418	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C419	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C420	1-124-673-11	ELECT	100uF	20%	10V
C421	1-124-673-11	ELECT	100uF	20%	10V
C422	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C423	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C424	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C425	1-124-673-11	ELECT	100uF	20%	10V
C426	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C427	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C428	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C429	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C501	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C502	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C506	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C508	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C509	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C510	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C511	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C512	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C513	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C515	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C516	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C517	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C518	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C519	1-128-995-21	ELECT CHIP	100uF	20%	10V
C520	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C521	1-164-160-11	CERAMIC CHIP	20PF	5%	50V
C601	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C602	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C603	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C604	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C605	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C606	1-124-589-11	ELECT	47uF	20%	16V
C607	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C608	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C609	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C610	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C611	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C612	1-115-156-11	CERAMIC CHIP	1uF		10V
C613	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (M1000TF)
C701	1-126-160-11	ELECT	1uF	20%	50V
C704	1-124-589-11	ELECT	47uF	20%	16V
C705	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C706	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C707	1-126-160-11	ELECT	1uF	20%	50V
C708	1-124-259-11	ELECT	4.7uF	20%	16V
C710	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C711	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C712	1-135-473-21	ELECT	3300uF	20%	16V
C801	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C802	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C803	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C804	1-124-233-11	ELECT	10uF	20%	16V
		< CONNECTOR >			
CN101	1-774-701-11	PIN, CONNECTOR 16P			
* CN201	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
* CN302	1-566-761-11	PIN, CONNECTOR (PC BOARD) 6P			
CN401	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)			
CN402	1-815-260-11	CONNECTOR, BOARD TO BOARD 30P			
CN601	1-566-760-11	PIN, CONNECTOR (PC BOARD) 5P			
CN801	1-573-934-21	CONNECTOR, FFC/FPC (ZIF) 25P			
CN802	1-770-359-11	PIN, CONNECTOR (PC BOARD) 2P			
		< JACK >			
CN301	1-816-481-11	JACK, PIN 4P (BUS AUDIO IN/AUX IN, SUB OUT (MONO))			
CNJ101	1-764-270-21	JACK, STEREO MINIATURE (DIA.3.5) (REMOTE IN) (M1000TF)			
		< DIODE >			
D101	8-719-074-47	DIODE	CRS02(TE85L)		
D102	8-719-074-47	DIODE	CRS02(TE85L)		
D103	8-719-074-47	DIODE	CRS02(TE85L)		
D104	8-719-074-47	DIODE	CRS02(TE85L)		
D105	8-719-060-81	DIODE	MA735-TX		
D106	8-719-422-62	DIODE	MA8062-L-TX		
D202	8-719-069-55	DIODE	UDZS-TE17-5.6B		
D301	8-719-978-33	DIODE	DTZ-TT11-6.8B		
D303	6-500-508-01	DIODE	RR263M-400FTR		
D304	6-500-508-01	DIODE	RR263M-400FTR		
D305	6-500-508-01	DIODE	RR263M-400FTR		
D306	6-500-508-01	DIODE	RR263M-400FTR		
D307	6-500-508-01	DIODE	RR263M-400FTR		
D308	6-500-508-01	DIODE	RR263M-400FTR		
D309	6-500-508-01	DIODE	RR263M-400FTR		
D310	6-500-508-01	DIODE	RR263M-400FTR		

Ref. No.	Part No.	Description	Remark
D402	8-719-069-55	DIODE UDZS-TE17-5.6B	
D403	8-719-017-94	DIODE MA8180	
D404	8-719-069-56	DIODE UDZS-TE17-6.2B	
D405	8-719-056-84	DIODE UDZ-TE-17-7.5B	
D406	8-719-017-94	DIODE MA8180	
D407	8-719-978-33	DIODE DTZ-TT11-6.8B	
D408	8-719-420-51	DIODE MA729	
D409	8-719-421-24	DIODE MA8039-H	
D410	8-719-017-94	DIODE MA8180	
D411	6-500-587-01	LED CL-220UB-X-TU (TRAY ILLUMINATION)	
D412	8-719-421-27	DIODE MA728	
D413	6-500-587-01	LED CL-220UB-X-TU (TRAY ILLUMINATION)	
D501	8-719-988-61	DIODE 1SS355TE-17	
D503	8-719-422-41	DIODE MA8051-L-TX	
D504	8-719-988-61	DIODE 1SS355TE-17	
D505	8-719-914-44	DIODE DAP202K	
D601	8-719-914-44	DIODE DAP202K	
D602	8-719-914-43	DIODE DAN202K	
D605	8-719-045-77	DIODE MA704WA-TX	
D606	8-719-988-61	DIODE 1SS355TE-17	
D702	8-719-023-25	DIODE MA704WK	
D705	8-719-988-61	DIODE 1SS355TE-17	
D706	6-500-508-01	DIODE RR263M-400FTR	
D707	6-500-508-01	DIODE RR263M-400FTR	
D710	8-719-988-61	DIODE 1SS355TE-17	
D711	8-719-978-33	DIODE DTZ-TT11-6.8B	
D712	8-719-049-38	DIODE 1N5404TU	
		< FAN >	
FAN691	1-763-815-11	FAN, DC (25X25)	
		< JUMPER RESISTOR >	
FB601	1-216-864-11	METAL CHIP 0 5% 1/10W	
		< IC >	
IC101	8-759-990-43	IC TL1451ACDB	
IC102	8-759-990-43	IC TL1451ACDB	
IC201	6-703-809-01	IC SAA6588T/V2-518 (M1000TF)	
IC301	8-759-422-21	IC NJM4580V(TE2)	
IC302	8-759-422-21	IC NJM4580V(TE2)	
IC303	8-759-278-58	IC NJM4558V-TE2	
IC305	8-759-827-14	IC TA8268AH	
IC400	6-703-303-01	IC TDA7416	
IC401	8-759-096-16	IC MM1175XFF	
IC402	8-759-523-81	IC TC74VHC08FT(EL)	
IC403	8-759-695-94	IC TAR5S33(TE85R)	
IC404	6-703-419-01	IC LA2901V-TLM-E	
IC405	8-759-196-96	IC TC7SH08FU-TE85R	
IC406	8-759-485-79	IC TC7SET08FU(TE85L)	
IC501	6-802-936-01	IC MB90574CPMT-G-401-BNDE1 (M3DI)	
IC501	6-802-937-01	IC MB90574CPMT-G-402-BNDE1 (M1000TF)	
IC601	8-759-337-40	IC NJM2904V(TE2)	
IC602	8-759-527-33	IC LB1930M-TLM-E	
IC603	8-759-668-14	IC PQ09DZ1U	
IC604	8-759-828-22	IC XC61CN4102MR	
IC605	8-759-830-17	IC RRX9000-0401R#01	
IC801	8-759-679-36	IC TC7WT125FU(TE12R)	

MAIN

Ref. No.	Part No.	Description			Remark
		< JUMPER RESISTOR >			
JR100	1-216-864-11	METAL CHIP	0	5%	1/10W
JR102	1-216-864-11	METAL CHIP	0	5%	1/10W
JR103	1-216-864-11	METAL CHIP	0	5%	1/10W
JR104	1-216-864-11	METAL CHIP	0	5%	1/10W
JR111	1-216-864-11	METAL CHIP	0	5%	1/10W
JR112	1-216-864-11	METAL CHIP	0	5%	1/10W
JR113	1-216-864-11	METAL CHIP	0	5%	1/10W
JR114	1-216-864-11	METAL CHIP	0	5%	1/10W
JR120	1-216-864-11	METAL CHIP	0	5%	1/10W
JR121	1-216-864-11	METAL CHIP	0	5%	1/10W
JR124	1-216-864-11	METAL CHIP	0	5%	1/10W
		< COIL >			
L101	1-428-979-21	COIL, CHOKE	22uH		
L102	1-456-372-21	COIL, CHOKE			
L103	1-428-981-41	COIL, CHOKE	1.8uH		
L104	1-416-734-21	COIL, CHOKE	27uH		
L105	1-428-981-41	COIL, CHOKE	1.8uH		
L106	1-428-979-21	COIL, CHOKE	22uH		
L107	1-428-978-21	COIL, CHOKE	15uH		
L108	1-428-981-41	COIL, CHOKE	1.8uH		
L109	1-416-734-21	COIL, CHOKE	27uH		
L110	1-428-981-41	COIL, CHOKE	1.8uH		
L501	1-414-185-51	INDUCTOR	22uH		
L701	1-419-476-31	COIL, CHOKE	250uH		
		< TRANSISTOR >			
Q101	8-729-903-46	TRANSISTOR	2SB1132-P		
Q102	8-729-820-46	TRANSISTOR	2SB1202FAS		
Q103	8-729-903-46	TRANSISTOR	2SB1132-P		
Q104	8-729-425-25	TRANSISTOR	XN4604-TX		
Q105	1-801-806-11	TRANSISTOR	DTC144EKA		
Q106	8-729-901-00	TRANSISTOR	DTC124EK		
Q107	8-729-901-00	TRANSISTOR	DTC124EK		
Q109	1-801-806-11	TRANSISTOR	DTC144EKA		
Q110	8-729-027-38	TRANSISTOR	DTA144EKA-T146		
Q111	8-729-820-46	TRANSISTOR	2SB1202FAS		
Q112	8-729-425-25	TRANSISTOR	XN4604-TX		
Q113	1-801-806-11	TRANSISTOR	DTC144EKA		
Q114	8-729-027-38	TRANSISTOR	DTA144EKA-T146		
Q115	8-729-425-25	TRANSISTOR	XN4604-TX		
Q116	1-801-806-11	TRANSISTOR	DTC144EKA		
Q117	8-729-820-46	TRANSISTOR	2SB1202FAS		
Q118	8-729-425-25	TRANSISTOR	XN4604-TX		
Q119	8-729-820-46	TRANSISTOR	2SB1202FAS		
Q120	8-729-040-17	TRANSISTOR	2SD2164-K		
Q201	8-729-920-85	TRANSISTOR	2SD1664-QR		
Q202	1-801-806-11	TRANSISTOR	DTC144EKA (M1000TF)		
Q301	8-729-053-84	FET	SSM3KO9FU(T5LSONY1)		
Q302	8-729-021-95	TRANSISTOR	RN1441-A(TE85L)		
Q303	8-729-021-95	TRANSISTOR	RN1441-A(TE85L)		
Q304	8-729-021-95	TRANSISTOR	RN1441-A(TE85L)		
Q305	8-729-021-95	TRANSISTOR	RN1441-A(TE85L)		
Q306	8-729-021-95	TRANSISTOR	RN1441-A(TE85L)		
Q402	8-729-920-85	TRANSISTOR	2SD1664-QR		
Q403	8-729-027-38	TRANSISTOR	DTA144EKA-T146		
Q404	8-729-019-00	TRANSISTOR	2SD2394-G		
Q405	8-729-900-53	TRANSISTOR	DTC114EK		
Q406	8-729-900-53	TRANSISTOR	DTC114EK		
Q407	8-729-027-26	TRANSISTOR	DTA114YKA-T146		
Q408	8-729-027-46	TRANSISTOR	DTC114YK-T146		
Q409	8-729-900-53	TRANSISTOR	DTC114EK		
Q410	1-801-806-11	TRANSISTOR	DTC144EKA		
Q411	8-729-901-00	TRANSISTOR	DTC124EK		
Q412	8-729-903-46	TRANSISTOR	2SB1132-P		
Q501	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q702	8-729-144-85	FET	2SK1133		
Q703	1-801-806-11	TRANSISTOR	DTC144EKA		
Q704	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q705	8-729-049-13	FET	UPA1853GR-9JG-E1		
Q706	8-729-901-00	TRANSISTOR	DTC124EK		
Q707	8-729-901-00	TRANSISTOR	DTC124EK		
Q708	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q709	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q710	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q801	8-729-900-53	TRANSISTOR	DTC114EK		
Q802	8-729-900-53	TRANSISTOR	DTC114EK		
Q803	8-729-900-53	TRANSISTOR	DTC114EK		
Q804	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q805	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q806	8-729-822-84	TRANSISTOR	2SB1202FAST		
Q807	8-729-900-53	TRANSISTOR	DTC114EK		
		< RESISTOR >			
R101	1-216-845-11	METAL CHIP	100K	5%	1/10W
R102	1-218-711-11	METAL CHIP	6.2K	0.5%	1/10W
R103	1-216-845-11	METAL CHIP	100K	5%	1/10W
R104	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R105	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R106	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R107	1-216-864-11	METAL CHIP	0	5%	1/10W
R108	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R109	1-216-845-11	METAL CHIP	100K	5%	1/10W
R110	1-216-809-11	METAL CHIP	100	5%	1/10W
R111	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R112	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R113	1-216-809-11	METAL CHIP	100	5%	1/10W
R114	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R115	1-216-841-11	METAL CHIP	47K	5%	1/10W
R116	1-218-720-11	METAL CHIP	15K	0.5%	1/10W
R117	1-218-722-11	METAL CHIP	18K	0.5%	1/10W
R118	1-218-702-11	METAL CHIP	2.7K	0.5%	1/10W
R120	1-218-720-11	METAL CHIP	15K	0.5%	1/10W
R121	1-216-841-11	METAL CHIP	47K	5%	1/10W
R122	1-216-841-11	METAL CHIP	47K	5%	1/10W
R123	1-216-864-11	METAL CHIP	0	5%	1/10W
R124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R125	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R126	1-216-821-11	METAL CHIP	1K	5%	1/10W
R129	1-216-821-11	METAL CHIP	1K	5%	1/10W
R130	1-216-841-11	METAL CHIP	47K	5%	1/10W
R131	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R132	1-216-864-11	METAL CHIP	0	5%	1/10W
R133	1-218-742-11	METAL CHIP	120K	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R134	1-216-809-11	METAL CHIP	100	5%	1/10W
R135	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R136	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R137	1-218-720-11	METAL CHIP	15K	0.5%	1/10W
R138	1-218-718-11	METAL CHIP	12K	0.5%	1/10W
R139	1-218-738-11	METAL CHIP	82K	0.5%	1/10W
R140	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R141	1-216-841-11	METAL CHIP	47K	5%	1/10W
R142	1-216-841-11	METAL CHIP	47K	5%	1/10W
R143	1-216-841-11	METAL CHIP	47K	5%	1/10W
R144	1-216-841-11	METAL CHIP	47K	5%	1/10W
R145	1-216-841-11	METAL CHIP	47K	5%	1/10W
R146	1-216-821-11	METAL CHIP	1K	5%	1/10W
R147	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R148	1-216-864-11	METAL CHIP	0	5%	1/10W
R149	1-216-809-11	METAL CHIP	100	5%	1/10W
R150	1-218-738-11	METAL CHIP	82K	0.5%	1/10W
R151	1-218-720-11	METAL CHIP	15K	0.5%	1/10W
R152	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R153	1-216-835-11	METAL CHIP	15K	5%	1/10W
R201	1-216-295-11	SHORT CHIP	0		(M1000TF)
R202	1-216-817-11	METAL CHIP	470	5%	1/10W (M1000TF)
R203	1-216-001-00	METAL CHIP	10	5%	1/10W (M1000TF)
R204	1-216-001-00	METAL CHIP	10	5%	1/10W (M1000TF)
R205	1-216-864-11	METAL CHIP	0	5%	1/10W
R206	1-216-864-11	METAL CHIP	0	5%	1/10W
R207	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (M1000TF)
R208	1-216-295-11	SHORT CHIP	0		
R209	1-216-295-11	SHORT CHIP	0		
R210	1-216-837-11	METAL CHIP	22K	5%	1/10W
R211	1-216-001-00	METAL CHIP	10	5%	1/10W
R212	1-216-809-11	METAL CHIP	100	5%	1/10W (M1000TF)
R216	1-216-817-11	METAL CHIP	470	5%	1/10W
R301	1-216-833-11	METAL CHIP	10K	5%	1/10W
R302	1-216-809-11	METAL CHIP	100	5%	1/10W
R303	1-216-864-11	METAL CHIP	0	5%	1/10W
R304	1-216-833-11	METAL CHIP	10K	5%	1/10W
R305	1-216-809-11	METAL CHIP	100	5%	1/10W
R306	1-216-833-11	METAL CHIP	10K	5%	1/10W
R307	1-216-833-11	METAL CHIP	10K	5%	1/10W
R308	1-216-833-11	METAL CHIP	10K	5%	1/10W
R309	1-216-833-11	METAL CHIP	10K	5%	1/10W
R310	1-216-835-11	METAL CHIP	15K	5%	1/10W
R311	1-216-864-11	METAL CHIP	0	5%	1/10W
R312	1-216-835-11	METAL CHIP	15K	5%	1/10W
R313	1-216-835-11	METAL CHIP	15K	5%	1/10W
R314	1-216-835-11	METAL CHIP	15K	5%	1/10W
R315	1-216-833-11	METAL CHIP	10K	5%	1/10W
R316	1-216-833-11	METAL CHIP	10K	5%	1/10W
R317	1-216-864-11	METAL CHIP	0	5%	1/10W
R318	1-216-864-11	METAL CHIP	0	5%	1/10W
R319	1-216-833-11	METAL CHIP	10K	5%	1/10W
R320	1-216-833-11	METAL CHIP	10K	5%	1/10W
R321	1-216-845-11	METAL CHIP	100K	5%	1/10W
R322	1-216-809-11	METAL CHIP	100	5%	1/10W
R323	1-216-809-11	METAL CHIP	100	5%	1/10W
R324	1-216-809-11	METAL CHIP	100	5%	1/10W
R325	1-216-809-11	METAL CHIP	100	5%	1/10W
R326	1-216-845-11	METAL CHIP	100K	5%	1/10W
R327	1-216-845-11	METAL CHIP	100K	5%	1/10W
R328	1-216-845-11	METAL CHIP	100K	5%	1/10W
R329	1-216-845-11	METAL CHIP	100K	5%	1/10W
R330	1-216-073-00	RES-CHIP	10K	5%	1/10W
R331	1-216-813-11	METAL CHIP	220	5%	1/10W
R332	1-216-813-11	METAL CHIP	220	5%	1/10W
R333	1-216-813-11	METAL CHIP	220	5%	1/10W
R334	1-216-813-11	METAL CHIP	220	5%	1/10W
R335	1-216-813-11	METAL CHIP	220	5%	1/10W
R336	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R337	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R338	1-216-841-11	METAL CHIP	47K	5%	1/10W
R339	1-216-841-11	METAL CHIP	47K	5%	1/10W
R340	1-216-841-11	METAL CHIP	47K	5%	1/10W
R341	1-216-841-11	METAL CHIP	47K	5%	1/10W
R342	1-216-841-11	METAL CHIP	47K	5%	1/10W
R343	1-216-864-11	METAL CHIP	0	5%	1/10W
R344	1-216-864-11	METAL CHIP	0	5%	1/10W
R345	1-216-864-11	METAL CHIP	0	5%	1/10W
R346	1-216-864-11	METAL CHIP	0	5%	1/10W
R347	1-216-835-11	METAL CHIP	15K	5%	1/10W
R402	1-216-295-11	SHORT CHIP	0		
R403	1-216-295-11	SHORT CHIP	0		
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-295-11	SHORT CHIP	0		
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-835-11	METAL CHIP	15K	5%	1/10W
R408	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R409	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R410	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R411	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R412	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R413	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R414	1-216-821-11	METAL CHIP	1K	5%	1/10W
R415	1-216-841-11	METAL CHIP	47K	5%	1/10W
R416	1-216-821-11	METAL CHIP	1K	5%	1/10W
R417	1-216-047-11	RES-CHIP	820	5%	1/10W
R418	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R419	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R420	1-216-833-11	METAL CHIP	10K	5%	1/10W
R421	1-216-864-11	METAL CHIP	0	5%	1/10W
R422	1-216-047-11	RES-CHIP	820	5%	1/10W
R429	1-218-728-11	METAL CHIP	33K	0.5%	1/10W
R430	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R431	1-218-728-11	METAL CHIP	33K	0.5%	1/10W
R432	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R433	1-218-728-11	METAL CHIP	33K	0.5%	1/10W
R434	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R435	1-218-728-11	METAL CHIP	33K	0.5%	1/10W
R436	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R501	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R502	1-216-864-11	METAL CHIP	0	5%	1/10W
R503	1-216-864-11	METAL CHIP	0	5%	1/10W

MAIN **SERVO**

Ref. No.	Part No.	Description			Remark
R504	1-216-845-11	METAL CHIP	100K	5%	1/10W
R505	1-216-809-11	METAL CHIP	100	5%	1/10W
R506	1-216-864-11	METAL CHIP	0	5%	1/10W
R507	1-216-864-11	METAL CHIP	0	5%	1/10W
R508	1-216-836-11	METAL CHIP	18K	5%	1/10W
R509	1-216-833-11	METAL CHIP	10K	5%	1/10W
R510	1-216-833-11	METAL CHIP	10K	5%	1/10W
R511	1-216-845-11	METAL CHIP	100K	5%	1/10W
R512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R513	1-216-821-11	METAL CHIP	1K	5%	1/10W
R514	1-216-864-11	METAL CHIP	0	5%	1/10W
R515	1-216-815-11	METAL CHIP	330	5%	1/10W
R516	1-216-821-11	METAL CHIP	1K	5%	1/10W
R517	1-216-821-11	METAL CHIP	1K	5%	1/10W
R518	1-216-845-11	METAL CHIP	100K	5%	1/10W
R519	1-216-841-11	METAL CHIP	47K	5%	1/10W
R520	1-216-821-11	METAL CHIP	1K	5%	1/10W
R521	1-216-864-11	METAL CHIP	0	5%	1/10W
R522	1-216-864-11	METAL CHIP	0	5%	1/10W
R523	1-216-864-11	METAL CHIP	0	5%	1/10W
R524	1-216-845-11	METAL CHIP	100K	5%	1/10W
R525	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R527	1-216-845-11	METAL CHIP	100K	5%	1/10W
R528	1-216-821-11	METAL CHIP	1K	5%	1/10W
R529	1-216-845-11	METAL CHIP	100K	5%	1/10W
R530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R532	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R533	1-216-864-11	METAL CHIP	0	5%	1/10W
R534	1-216-864-11	METAL CHIP	0	5%	1/10W
R537	1-216-845-11	METAL CHIP	100K	5%	1/10W
R540	1-216-864-11	METAL CHIP	0	5%	1/10W
R544	1-216-845-11	METAL CHIP	100K	5%	1/10W
R546	1-216-845-11	METAL CHIP	100K	5%	1/10W
R549	1-216-849-11	METAL CHIP	220K	5%	1/10W
R550	1-216-849-11	METAL CHIP	220K	5%	1/10W
R553	1-216-841-11	METAL CHIP	47K	5%	1/10W
R554	1-216-864-11	METAL CHIP	0	5%	1/10W (M1000TF)
R555	1-216-864-11	METAL CHIP	0	5%	1/10W (M3DI)
R601	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R602	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R603	1-216-845-11	METAL CHIP	100K	5%	1/10W
R604	1-216-833-11	METAL CHIP	10K	5%	1/10W
R605	1-218-236-11	RES-CHIP	1	10%	1/4W
R606	1-218-236-11	RES-CHIP	1	10%	1/4W
R607	1-216-809-11	METAL CHIP	100	5%	1/10W (M1000TF)
R608	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R610	1-216-821-11	METAL CHIP	1K	5%	1/10W
R611	1-216-857-11	METAL CHIP	1M	5%	1/10W
R612	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R613	1-216-845-11	METAL CHIP	100K	5%	1/10W
R614	1-216-845-11	METAL CHIP	100K	5%	1/10W
R615	1-216-845-11	METAL CHIP	100K	5%	1/10W
R616	1-216-845-11	METAL CHIP	100K	5%	1/10W
R617	1-216-845-11	METAL CHIP	100K	5%	1/10W
R618	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R619	1-216-853-11	METAL CHIP	470K	5%	1/10W
R620	1-216-845-11	METAL CHIP	100K	5%	1/10W
R704	1-216-833-11	METAL CHIP	10K	5%	1/10W
R705	1-216-821-11	METAL CHIP	1K	5%	1/10W
R707	1-216-805-11	METAL CHIP	47	5%	1/10W
R708	1-216-841-11	METAL CHIP	47K	5%	1/10W
R709	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R710	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R711	1-216-833-11	METAL CHIP	10K	5%	1/10W
R712	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R713	1-216-837-11	METAL CHIP	22K	5%	1/10W
R714	1-216-833-11	METAL CHIP	10K	5%	1/10W
R715	1-216-845-11	METAL CHIP	100K	5%	1/10W
R716	1-216-833-11	METAL CHIP	10K	5%	1/10W
R717	1-216-833-11	METAL CHIP	10K	5%	1/10W
R718	1-216-841-11	METAL CHIP	47K	5%	1/10W
R719	1-216-821-11	METAL CHIP	1K	5%	1/10W
R720	1-216-073-00	RES-CHIP	10K	5%	1/10W
R721	1-216-841-11	METAL CHIP	47K	5%	1/10W
R722	1-216-073-00	RES-CHIP	10K	5%	1/10W
R723	1-216-073-00	RES-CHIP	10K	5%	1/10W
R724	1-216-073-00	RES-CHIP	10K	5%	1/10W
R725	1-216-073-00	RES-CHIP	10K	5%	1/10W
R726	1-216-073-00	RES-CHIP	10K	5%	1/10W
R727	1-216-821-11	METAL CHIP	1K	5%	1/10W
R801	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R802	1-216-821-11	METAL CHIP	1K	5%	1/10W
R803	1-216-821-11	METAL CHIP	1K	5%	1/10W
R804	1-216-821-11	METAL CHIP	1K	5%	1/10W
R805	1-216-073-00	RES-CHIP	10K	5%	1/10W
R806	1-216-821-11	METAL CHIP	1K	5%	1/10W
R807	1-216-295-11	SHORT CHIP	0		
R808	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< THERMISTOR (POSITIVE) >			
TH401	1-801-792-21	THERMISTOR, POSITIVE			
TH501	1-810-812-21	THERMISTOR, NTC (1608)			
TH701	1-810-940-11	THERMISTOR, POSITIVE			
TH702	1-810-940-11	THERMISTOR, POSITIVE			
		< TUNER >			
TUX501	A-3220-887-A	TUNER UNIT (TUX-030)			
		< VIBRATOR >			
X201	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz) (M1000TF)			
X501	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
X502	1-767-993-31	VIBRATOR, CRYSTAL (3.6864MHz)			
X601	1-781-282-11	VIBRATOR, CERAMIC (4MHz)			
**********					
	A-3274-698-A	SERVO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4	1-104-609-11	ELECT CHIP	100uF	20%	4V
C5	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C6	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V

Ref. No.	Part No.	Description			Remark
C8	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C9	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C10	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C11	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C13	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C14	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C15	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C16	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C17	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C18	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C19	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C20	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C21	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C22	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C23	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C24	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C25	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C27	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C29	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C34	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C35	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C38	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C39	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C40	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C41	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C43	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C44	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C45	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C51	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C53	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C54	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C55	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C56	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C57	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C58	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C59	1-104-609-11	ELECT CHIP	100uF	20%	4V
C60	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C61	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C62	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C63	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C65	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C67	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C68	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C69	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C70	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C75	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C77	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C78	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C79	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C81	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C102	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C111	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C112	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CN1	1-815-352-11	CONNECTOR, BOARD TO BOARD 30P			
CN2	1-794-153-21	CONNECTOR, FPC (ZIF) 16P			
CN3	1-816-275-21	CONNECTOR, FFC/FPC 6P			
		< FERRITE BEAD >			
FB2	1-216-864-11	METAL CHIP	0	5%	1/10W
FB3	1-216-864-11	METAL CHIP	0	5%	1/10W
FB6	1-469-144-21	FERRITE, EMI (SMD)			
		< IC >			
IC1	8-759-699-98	IC uPD63711GC-8EU			
IC2	8-759-658-87	IC BA5810FP-E2			
IC3	6-703-905-01	IC HD6432238RWN35TEI			
IC4	6-702-661-01	IC UT62L1024LC-55LLI			
IC5	6-702-153-01	IC CXD9684R-005			
IC6	8-759-645-31	IC RN5RZ25BA-TL-FA			
IC7	8-759-491-50	IC TC74VHCT244AFT(EL)			
IC12	8-759-196-96	IC TC7SH08FU-TE85R			
		< JUMPER RESISTOR >			
JR1	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR3	1-216-864-11	METAL CHIP	0	5%	1/10W
JR5	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR6	1-216-864-11	METAL CHIP	0	5%	1/10W
JR12	1-216-864-11	METAL CHIP	0	5%	1/10W
JR13	1-216-864-11	METAL CHIP	0	5%	1/10W
JR14	1-216-864-11	METAL CHIP	0	5%	1/10W
JR15	1-216-864-11	METAL CHIP	0	5%	1/10W
JR17	1-216-864-11	METAL CHIP	0	5%	1/10W
JR21	1-216-864-11	METAL CHIP	0	5%	1/10W
L4	1-216-001-00	METAL CHIP	10	5%	1/10W
		< COIL >			
L6	1-469-144-21	FERRITE, EMI (SMD)			
L8	1-414-398-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q1	8-729-904-87	TRANSISTOR 2SB1197K-R			
		< RESISTOR >			
R3	1-216-806-11	METAL CHIP	56	5%	1/10W
R5	1-218-344-11	METAL CHIP	7.5K	5%	1/10W
R7	1-216-839-11	METAL CHIP	33K	5%	1/10W
R8	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9	1-216-840-11	METAL CHIP	39K	5%	1/10W
R10	1-216-835-11	METAL CHIP	15K	5%	1/10W
R12	1-216-837-11	METAL CHIP	22K	5%	1/10W
R13	1-216-807-11	METAL CHIP	68	5%	1/10W
R14	1-216-841-11	METAL CHIP	47K	5%	1/10W
R15	1-216-841-11	METAL CHIP	47K	5%	1/10W
R26	1-216-806-11	METAL CHIP	56	5%	1/10W
R29	1-216-833-11	METAL CHIP	10K	5%	1/10W
R30	1-216-833-11	METAL CHIP	10K	5%	1/10W
R45	1-216-845-11	METAL CHIP	100K	5%	1/10W
R46	1-216-845-11	METAL CHIP	100K	5%	1/10W

SERVO | SWITCH

Ref. No.	Part No.	Description			Remark
R47	1-216-845-11	METAL CHIP	100K	5%	1/10W
R48	1-216-845-11	METAL CHIP	100K	5%	1/10W
R49	1-216-845-11	METAL CHIP	100K	5%	1/10W
R50	1-216-809-11	METAL CHIP	100	5%	1/10W
R51	1-216-809-11	METAL CHIP	100	5%	1/10W
R52	1-216-809-11	METAL CHIP	100	5%	1/10W
R53	1-216-809-11	METAL CHIP	100	5%	1/10W
R54	1-216-809-11	METAL CHIP	100	5%	1/10W
R55	1-216-809-11	METAL CHIP	100	5%	1/10W
R64	1-216-809-11	METAL CHIP	100	5%	1/10W
R65	1-216-819-11	METAL CHIP	680	5%	1/10W
R67	1-216-845-11	METAL CHIP	100K	5%	1/10W
R68	1-216-857-11	METAL CHIP	1M	5%	1/10W
R69	1-216-813-11	METAL CHIP	220	5%	1/10W
R70	1-216-813-11	METAL CHIP	220	5%	1/10W
R71	1-216-809-11	METAL CHIP	100	5%	1/10W
R72	1-216-809-11	METAL CHIP	100	5%	1/10W
R73	1-216-809-11	METAL CHIP	100	5%	1/10W
R74	1-216-809-11	METAL CHIP	100	5%	1/10W
R75	1-216-809-11	METAL CHIP	100	5%	1/10W
R76	1-216-809-11	METAL CHIP	100	5%	1/10W
R77	1-216-809-11	METAL CHIP	100	5%	1/10W
R78	1-216-809-11	METAL CHIP	100	5%	1/10W
R81	1-216-845-11	METAL CHIP	100K	5%	1/10W
R82	1-216-845-11	METAL CHIP	100K	5%	1/10W
R83	1-216-845-11	METAL CHIP	100K	5%	1/10W
R84	1-216-845-11	METAL CHIP	100K	5%	1/10W
R85	1-216-845-11	METAL CHIP	100K	5%	1/10W
R86	1-216-845-11	METAL CHIP	100K	5%	1/10W
R87	1-216-845-11	METAL CHIP	100K	5%	1/10W
R88	1-216-845-11	METAL CHIP	100K	5%	1/10W
R89	1-216-845-11	METAL CHIP	100K	5%	1/10W
R90	1-216-845-11	METAL CHIP	100K	5%	1/10W
R91	1-216-845-11	METAL CHIP	100K	5%	1/10W
R92	1-216-845-11	METAL CHIP	100K	5%	1/10W
R93	1-216-809-11	METAL CHIP	100	5%	1/10W
R94	1-216-809-11	METAL CHIP	100	5%	1/10W
R95	1-216-809-11	METAL CHIP	100	5%	1/10W
R96	1-216-809-11	METAL CHIP	100	5%	1/10W
R97	1-216-837-11	METAL CHIP	22K	5%	1/10W
R98	1-216-834-11	METAL CHIP	12K	5%	1/10W
R100	1-216-845-11	METAL CHIP	100K	5%	1/10W
R102	1-216-845-11	METAL CHIP	100K	5%	1/10W
R103	1-216-845-11	METAL CHIP	100K	5%	1/10W
R104	1-216-845-11	METAL CHIP	100K	5%	1/10W
R105	1-216-845-11	METAL CHIP	100K	5%	1/10W
R106	1-216-821-11	METAL CHIP	1K	5%	1/10W
R107	1-216-821-11	METAL CHIP	1K	5%	1/10W
R109	1-216-845-11	METAL CHIP	100K	5%	1/10W
R111	1-216-845-11	METAL CHIP	100K	5%	1/10W
R113	1-216-845-11	METAL CHIP	100K	5%	1/10W
R114	1-216-845-11	METAL CHIP	100K	5%	1/10W
R115	1-216-837-11	METAL CHIP	22K	5%	1/10W
R116	1-216-809-11	METAL CHIP	100	5%	1/10W
R117	1-216-809-11	METAL CHIP	100	5%	1/10W
R118	1-216-809-11	METAL CHIP	100	5%	1/10W
R119	1-216-821-11	METAL CHIP	1K	5%	1/10W
R121	1-216-845-11	METAL CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R124	1-216-837-11	METAL CHIP	22K	5%	1/10W
R126	1-216-845-11	METAL CHIP	100K	5%	1/10W
R127	1-216-845-11	METAL CHIP	100K	5%	1/10W
R128	1-216-845-11	METAL CHIP	100K	5%	1/10W
R129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R130	1-216-809-11	METAL CHIP	100	5%	1/10W
R131	1-216-809-11	METAL CHIP	100	5%	1/10W
R132	1-216-809-11	METAL CHIP	100	5%	1/10W
R133	1-216-809-11	METAL CHIP	100	5%	1/10W
R134	1-216-809-11	METAL CHIP	100	5%	1/10W
R135	1-216-809-11	METAL CHIP	100	5%	1/10W
R136	1-216-809-11	METAL CHIP	100	5%	1/10W
R142	1-216-815-11	METAL CHIP	330	5%	1/10W
R143	1-218-484-11	METAL CHIP	750	5%	1/10W
R144	1-216-812-11	METAL CHIP	180	5%	1/10W
R145	1-216-817-11	METAL CHIP	470	5%	1/10W
R146	1-216-815-11	METAL CHIP	330	5%	1/10W
R147	1-218-484-11	METAL CHIP	750	5%	1/10W
R148	1-216-809-11	METAL CHIP	100	5%	1/10W
R149	1-216-814-11	METAL CHIP	270	5%	1/10W
R150	1-216-821-11	METAL CHIP	1K	5%	1/10W
R151	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R152	1-216-813-11	METAL CHIP	220	5%	1/10W
R153	1-216-818-11	METAL CHIP	560	5%	1/10W
R154	1-216-809-11	METAL CHIP	100	5%	1/10W

< NETWORK RESISTOR >

RB1	1-233-576-11	RES, CHIP NETWORK 100X4
RB2	1-233-576-11	RES, CHIP NETWORK 100X4

< VIBRATOR >

X1	1-795-520-11	VIBRATOR, CERAMIC (16.9344MHz)
X2	1-795-127-21	VIBRATOR, CERAMIC (12.288MHz)

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	A-3340-310-A	SWITCH BOARD, COMPLETE (including S601,S602)

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MISCELLANEOUS

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2	1-776-207-72	CORD (WITH CONNECTOR) (POWER) (M3DI)
2	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER) (M1000TF)
101	1-688-395-11	FLEXIBLE BOARD
103	1-827-154-11	CABLE, FLEXIBLE FLAT (25 CORE)
301	A-3337-193-A	FLOATING BLOCK ASSY (including M901)
307	1-823-951-11	CABLE, FLEXIBLE FLAT (16 CORE)
⚠310	8-820-165-06	OPTICAL PICK-UP KSS-721A/C-RP
311	1-676-707-11	PICK-UP FLEXIBLE BOARD
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A
M601	A-3315-488-A	MOTOR ASSY (OPEN/CLOSE)
M902	A-3301-985-A	MOTOR ASSY, SLED (SLED)
M903	A-3315-039-A	MOTOR SUB ASSY, LO (LOADING)

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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES	
		**********	
*	1-469-778-11	CLAMP, FERRITE (RFC-5) (for POWER CORD)	
	1-477-261-11	REMOTE COMMANDER (RM-X131) (M3DI)	
	1-477-261-21	REMOTE COMMANDER (RM-X132) (M1000TF)	
	3-230-549-01	LID, BATTERY CASE (for RM-X131/X132)	
	3-251-038-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH,SPANISH) (M3DI)	
	3-251-038-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH,SPANISH,DUTCH,ITALIAN) (M1000TF)	
	3-251-042-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH) (M3DI)	
	3-251-042-21	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH,DUTCH,ITALIAN) (M1000TF)	
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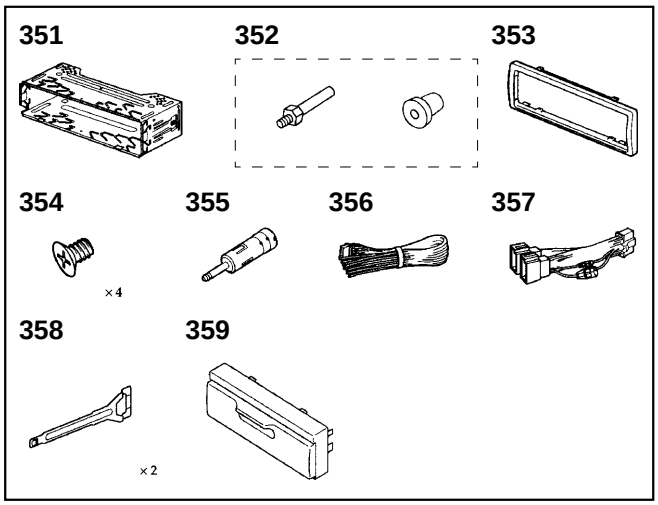
		PARTS FOR INSTALLING AND CONNECTIONS	
		**********	
351	X-3382-647-1	FRAME ASSY, FITTING	
352	X-3366-405-1	SCREW ASSY (EXP), FITTING (M1000TF)	
353	3-251-033-01	COLLAR	
354	3-934-325-01	SCREW (+K 5X8 TP) (M3DI)	
355	1-465-459-21	ADAPTOR, ANTENNA (M1000TF)	
356	1-776-207-72	CORD (WITH CONNECTOR) (POWER) (M3DI)	
357	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER) (M1000TF)	
358	3-246-471-01	KEY (FRAME)	
359	X-3383-094-1	COVER (PANEL) ASSY (for FRONT PANEL)	



REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2003. 03	New